

US EPA ARCHIVE DOCUMENT



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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TestAmerica Job ID: 160-2044-1

Client Project/Site: West Lake Landfill

For:

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Authorized for release by:
4/30/2013 2:15:21 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

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Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Engineering Management Support, Inc.

Project: West Lake Landfill

Report Number: 160-2044-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 04/10/2013; the samples arrived in good condition, properly preserved and on ice with the exceptions noted below. The temperatures of the 2 coolers at receipt time were 2.0° C and 2.0° C.

The following sample was received with headspace in 1 of 3 sample vials: S-82, Lab Sample 160-2044-13. The following sample was received improperly preserved for Dissolved Metals Analysis. Nitric Acid Lot 88301 was added to correct pH to < 2.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), FB@PZ-201A-SS (160-2044-3), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19), DUP05 (160-2044-20) and TRIP BLANK (160-2044-21) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 04/11/2013 and 04/12/2013.

Analytical batch 45727

Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Job ID: 160-2044-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

ICAL-8260C-X5mML-RSD15Low
X130325A

The ICAL %RSD meets the QC limit of 15% or less for all compounds. Due to recent maintenance on MSX where a new multiplier was installed and the filter removed, the linear range of the instrument has been narrowed. This caused the analyst to change the primary quantification ion for Methyl acetate, 1,4-Dioxane and trans-1,4-Dichloro-2-butene. These compounds are valid in this ICAL; however, will be re-accessed once this ICAL fails. The ICV %D meets the QC limits of +/-30%D for all compounds. The ICV %D for Vinyl acetate is outside the upper QC limit of +/-20%D as requested for some client specific requirements. In those specific cases, the sample will require re-analysis if the analyte is detected above the reporting limits. Isobutanol, 1,4-Dioxane, n-Butanol and 2-Nitropropane were removed from the initial calibration low point at 5ppb due to poor response. The initial calibration has additional point lower than the 5ppb standard for some compounds in order to meet specific client's requirements for lower reporting limits. Acetone, Chlorobenzene, Ethylbenzene, m,p-Xylene, o-Xylene, Isopropylbenzene, 2-Chlorotoluene, t-Butylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Isopropyltoluene, 1,4-Dichlorobenzene, n-Butylbenzene, Naphthalene, 1,2,3-Trichlorobenzene and Xylene(Total) were from the initial calibration highest point due to poor response.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 5 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 45727 had Ethylbenzene outside the control limits; therefore, re-extraction/re-analysis was not performed. The MS/MSD recoveries were within QC limits for all analytes.

Surrogate recovery for the following samples was outside control limits: I-68 (160-2044-10), I-9 (160-2044-15), PZ-205-SS (160-2044-7). Re-extraction and re-analysis was performed within of holding time with acceptable results.

Analytical batch 45595

ICAL-8260C-F5mL-RSD15Low
F130325B

The ICV %D for Vinyl acetate is within the method upper QC limit of +30%D; it is outside the upper limit of 20% required by some clients. The sample will require re-analysis if this analyte is found above the reporting limit in samples with the 20% requirement. sec-Butylbenzene was removed from the initial calibration highest point due to elevated response. The surrogate compounds (Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8 and 4-Bromofluorobenzene) were not spiked at the initial calibration highest point because the recoveries do not warrant the high concentration. The initial calibration still meets the TestAmerica's point selection policy. No further action is required.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 45595 exceeded control limits for the following analytes: 2-Hexanone . These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 45595 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Analytical batch 46184

ICAL-8260C-F5mL-RSD15Low
F130325B

The ICV %D for Vinyl acetate is within the method upper QC limit of +30%D; it is outside the upper limit of 20% required by some clients. The sample will require re-analysis if this analyte is found above the reporting limit in samples with the 20% requirement. sec-Butylbenzene was removed from the initial calibration highest point due to elevated response. The surrogate compounds (Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8 and 4-Bromofluorobenzene) were not spiked at the initial calibration highest point because the recoveries do not warrant the high concentration. The initial calibration still meets the TestAmerica's point selection policy. No further action is required.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 5 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 46184 had up to 3 analytes outside control limits; therefore,

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Laboratory: TestAmerica St. Louis (Continued)

re-extraction/re-analysis was not performed. These results have been reported and qualified.

The MS/MSD %RPD is outside the QC limit for Acetone. The LCS/LCSD %RPD is within QC limits for all compounds.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICP)-Dissolved

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19) and DUP05 (160-2044-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/11/2013 and analyzed on 04/17/2013, 04/18/2013 and 04/19/2013.

Prep batch 45573, analytical batch 47079

The following samples were diluted due to the nature of the sample matrix. The sample digestates were yellow in color: (160-2044-5 MS), (160-2044-5 MSD), (160-2044-5 SD), D-6 (160-2044-18), D-83 (160-2044-19), D-87 (160-2044-11), D-93 (160-2044-16), DUP05 (160-2044-20), I-68 (160-2044-10), I-9 (160-2044-15), PZ-103-SS (160-2044-1), PZ-106-SD (160-2044-12), PZ-106-SS (160-2044-14), PZ-111-KS (160-2044-17), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-204-SS (160-2044-9), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), S-82 (160-2044-13). Elevated reporting limits (RLs) are provided.

The following samples were diluted to bring the concentration of target analytes (calcium) within the calibration range: D-87 (160-2044-11), D-93 (160-2044-16), DUP05 (160-2044-20), I-9 (160-2044-15), PZ-205-AS (160-2044-6). Elevated reporting limits (RLs) are provided.

Due to the high concentration of sodium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 45573 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other difficulties were encountered during the ICP analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19) and DUP05 (160-2044-20) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/11/2013 and analyzed on 04/15/2013, 04/16/2013 and 04/17/2013.

Prep batch 46208, analytical batch 45572

The following samples were diluted due to the nature of the sample matrix. The sample digestates were yellow in color: (160-2044-5 MS), (160-2044-5 MSD), (160-2044-5 SD), D-6 (160-2044-18), D-83 (160-2044-19), D-87 (160-2044-11), D-93 (160-2044-16), DUP05 (160-2044-20), I-68 (160-2044-10), I-9 (160-2044-15), PZ-103-SS (160-2044-1), PZ-106-SD (160-2044-12), PZ-106-SS (160-2044-14), PZ-111-KS (160-2044-17), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-204-SS (160-2044-9), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), S-82 (160-2044-13). Elevated reporting limits (RLs) are provided.

Due to the high concentration of calcium, magnesium, and sodium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 45572 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 45572 were outside control limits for aluminum. The RPD was within method limits indicating a potential matrix interference. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Job ID: 160-2044-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Prep batch 45572, analytical batch 46401

The following samples were diluted to bring the concentration of target analytes (calcium) within the calibration range: I-68 (160-2044-10), I-9 (160-2044-15), PZ-205-AS (160-2044-6). Elevated reporting limits (RLs) are provided.

Prep batch 45572, analytical batch 46686

The following samples were diluted to bring the concentration of target analytes (calcium) within the calibration range: D-87 (160-2044-11), D-93 (160-2044-16), DUP05 (160-2044-20). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19) and DUP05 (160-2044-20) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 04/22/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) on sample 2044-5. MS/MSD was instead performed on sample 2044-4.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19) and DUP05 (160-2044-20) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 04/18/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) on sample 2044-5. MS/MSD was instead preformed on sample 2044-6.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19) and DUP05 (160-2044-20) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 04/10/2013, 04/11/2013, 04/15/2013 and 04/16/2013.

The following samples were diluted to bring the concentrations Chloride, Sulfate, and Nitrate within the calibration range in batch 47338: D-6 (160-2044-18), D-83 (160-2044-19), D-87 (160-2044-11), D-93 (160-2044-16), DUP05 (160-2044-20), I-68 (160-2044-10), I-9 (160-2044-15), PZ-106-SD (160-2044-12), PZ-106-SS (160-2044-14), PZ-111-KS (160-2044-17), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-204-SS (160-2044-9), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), S-82 (160-2044-13). Elevated reporting limits (RLs) are provided.

The following samples in IC batch 47338 were received with insufficient time remaining to analyze Nitrate within 48 hour hold. PZ-103-SS

Case Narrative

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Job ID: 160-2044-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

(160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8)

No other difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

ALKALINITY

Samples PZ-103-SS (160-2044-1), PZ-114-AS (160-2044-2), PZ-201A-SS (160-2044-4), PZ-204A-SS (160-2044-5), PZ-205-AS (160-2044-6), PZ-205-SS (160-2044-7), PZ-206-SS (160-2044-8), PZ-204-SS (160-2044-9), I-68 (160-2044-10), D-87 (160-2044-11), PZ-106-SD (160-2044-12), S-82 (160-2044-13), PZ-106-SS (160-2044-14), I-9 (160-2044-15), D-93 (160-2044-16), PZ-111-KS (160-2044-17), D-6 (160-2044-18), D-83 (160-2044-19) and DUP05 (160-2044-20) were analyzed for alkalinity in accordance with EPA Method 310.1. The samples were analyzed on 04/12/2013 and 04/17/2013.

For the Alkalinity analysis of the associated samples in batch #46438 the samples were analyzed at a dilution based on high concentrations of target analytes. The reporting limit has been adjusted accordingly.DUP05 (160-2044-20), I-9 (160-2044-15), S-82 (160-2044-13)

The following sample in batch #45804 was diluted to high target analytes :PZ-103-SS (160-2044-1). Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the alkalinity analyses.

All quality control parameters were within the acceptance limits.

Chain of Custody Record

THE ENGLISH LANGUAGE IN THE NINETEENTH CENTURY

TestAmeric

Client Information		Sampler:	Lab PM:	Carrier Tracking No(s):																																																																		
Client Contact:	Mr. John Regan	Phone: 636-939-9111	E-Mail:	COC No: 160-264-117-7																																																																		
Company:	Hurst & Associates	Job #:	Page: Page 7 of 8	Job #: 207																																																																		
Analysis Requested																																																																						
<p>Total Number of Contaminants: <input checked="" type="checkbox"/> Dissolved Gases, 24/24h</p> <p>Preservation Codes:</p> <table border="0"> <tr><td>A - HCl</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn-Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - NaO4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2SO3</td></tr> <tr><td>G - Anchors</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - Di Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Z - other (specify)</td></tr> </table> <p>Other: <input type="checkbox"/></p>					A - HCl	M - Hexane	B - NaOH	N - None	C - Zn-Acetate	O - AsNaO2	D - Nitric Acid	P - NaO4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2SO3	G - Anchors	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - Di Water	V - MCAA	K - EDTA	W - pH 4-5	L - EDA	Z - other (specify)																																										
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Special Instructions/Note:																																																																						
<p>Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> GC/MS/MS (Validation): <input checked="" type="checkbox"/></p> <p>300-1-Alkalinity: <input type="checkbox"/></p> <p>300-10C,7470A: <input type="checkbox"/></p> <p>2600C: <input type="checkbox"/></p>																																																																						
<table border="1"> <thead> <tr> <th>Sample Date</th> <th>Time</th> <th>Sample</th> <th>Matrix</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr> <td>4/9/13</td> <td>1230</td> <td>5</td> <td>Water</td> <td>G=grab</td> <td>N D A D</td> </tr> <tr> <td></td> <td>1225</td> <td>1</td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>1256</td> <td></td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>1335</td> <td></td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>1438</td> <td></td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>1535</td> <td></td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>1545</td> <td></td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>1616</td> <td>-</td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>4/10/13</td> <td>5</td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> <tr> <td></td> <td>4/10/13</td> <td>-</td> <td>Water</td> <td>C=Comp</td> <td>X X X X X</td> </tr> </tbody> </table>					Sample Date	Time	Sample	Matrix	Sample Type (C=Comp, G=grab)	Preservation Code:	4/9/13	1230	5	Water	G=grab	N D A D		1225	1	Water	C=Comp	X X X X X		1256		Water	C=Comp	X X X X X		1335		Water	C=Comp	X X X X X		1438		Water	C=Comp	X X X X X		1535		Water	C=Comp	X X X X X		1545		Water	C=Comp	X X X X X		1616	-	Water	C=Comp	X X X X X		4/10/13	5	Water	C=Comp	X X X X X		4/10/13	-	Water	C=Comp	X X X X X
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<p>Possible Hazard Identification</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) <input type="checkbox"/></p>																																																																						
<p>Empty Kit Relinquished by: <input type="checkbox"/> Relinquished by: <input type="checkbox"/> Received by: <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For: <input type="checkbox"/> Months</p>																																																																						
<p>Method of Shipment: <input type="checkbox"/> Received by: <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For: <input type="checkbox"/> Months</p>																																																																						
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For: <input type="checkbox"/> Months</p> <p>Special Instructions/QC Requirements:</p>																																																																						
<p>Cooler Temperature(s) °C and Other Remarks: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other (specify) <input type="checkbox"/></p>																																																																						
<p>Custody Seals Intact: <input type="checkbox"/> Custody Seal No.: <input type="checkbox"/></p>																																																																						

Login Sample Receipt Checklist

Client: Engineering Management Support, Inc.

Job Number: 160-2044-1

Login Number: 2044**List Source: TestAmerica St. Louis****List Number: 1****Creator: Clarke, Jill**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	Refer to Job Narrative for details.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
310.1	Alkalinity	MCAWW	TAL SL

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Sample Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
160-2044-1	PZ-103-SS	Water	04/08/13 11:15	04/10/13 08:33	1
160-2044-2	PZ-114-AS	Water	04/08/13 11:45	04/10/13 08:33	2
160-2044-3	FB@PZ-201A-SS	Water	04/08/13 12:45	04/10/13 08:33	3
160-2044-4	PZ-201A-SS	Water	04/08/13 13:22	04/10/13 08:33	4
160-2044-5	PZ-204A-SS	Water	04/08/13 13:26	04/10/13 08:33	5
160-2044-6	PZ-205-AS	Water	04/08/13 13:36	04/10/13 08:33	6
160-2044-7	PZ-205-SS	Water	04/08/13 14:50	04/10/13 08:33	7
160-2044-8	PZ-206-SS	Water	04/08/13 15:00	04/10/13 08:33	8
160-2044-9	PZ-204-SS	Water	04/09/13 09:30	04/10/13 08:33	9
160-2044-10	I-68	Water	04/09/13 10:44	04/10/13 08:33	10
160-2044-11	D-87	Water	04/09/13 11:05	04/10/13 08:33	11
160-2044-12	PZ-106-SD	Water	04/09/13 12:00	04/10/13 08:33	12
160-2044-13	S-82	Water	04/09/13 12:27	04/10/13 08:33	13
160-2044-14	PZ-106-SS	Water	04/09/13 12:56	04/10/13 08:33	
160-2044-15	I-9	Water	04/09/13 13:35	04/10/13 08:33	
160-2044-16	D-93	Water	04/09/13 14:38	04/10/13 08:33	
160-2044-17	PZ-111-KS	Water	04/09/13 15:35	04/10/13 08:33	
160-2044-18	D-6	Water	04/09/13 15:45	04/10/13 08:33	
160-2044-19	D-83	Water	04/09/13 16:16	04/10/13 08:33	
160-2044-20	DUP05	Water	04/09/13 00:00	04/10/13 08:33	
160-2044-21	TRIP BLANK	Water	04/09/13 00:00	04/10/13 08:33	

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-103-SS**Lab Sample ID: 160-2044-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1	J	5.0	0.25	ug/L	1		8260C	Total/NA
Aluminum	8100		1000	400	ug/L	5		6010C	Total/NA
Arsenic	13	J	50	9.9	ug/L	5		6010C	Total/NA
Barium	620		250	20	ug/L	5		6010C	Total/NA
Calcium	150000		5000	530	ug/L	5		6010C	Total/NA
Chromium	24	J	50	16	ug/L	5		6010C	Total/NA
Iron	26000		500	140	ug/L	5		6010C	Total/NA
Lead	14	J	50	7.5	ug/L	5		6010C	Total/NA
Magnesium	72000		5000	660	ug/L	5		6010C	Total/NA
Manganese	430		75	17	ug/L	5		6010C	Total/NA
Sodium	56000		5000	1600	ug/L	5		6010C	Total/NA
Vanadium	35	J	250	20	ug/L	5		6010C	Total/NA
Zinc	110	B	100	26	ug/L	5		6010C	Total/NA
Barium	580		250	20	ug/L	5		6010C	Dissolved
Barium	570		250	20	ug/L	5		6010C	Dissolved
Barium	560		250	20	ug/L	5		6010C	Dissolved
Calcium	140000		5000	530	ug/L	5		6010C	Dissolved
Calcium	140000		5000	530	ug/L	5		6010C	Dissolved
Calcium	140000		5000	530	ug/L	5		6010C	Dissolved
Iron	19000		500	140	ug/L	5		6010C	Dissolved
Iron	19000		500	140	ug/L	5		6010C	Dissolved
Iron	18000		500	140	ug/L	5		6010C	Dissolved
Magnesium	69000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	69000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	66000		5000	660	ug/L	5		6010C	Dissolved
Manganese	370		75	17	ug/L	5		6010C	Dissolved
Manganese	370		75	17	ug/L	5		6010C	Dissolved
Manganese	350		75	17	ug/L	5		6010C	Dissolved
Selenium	15	J	75	13	ug/L	5		6010C	Dissolved
Sodium	55000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	55000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	54000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	28	J	100	26	ug/L	5		6010C	Dissolved
Zinc	31	J	100	26	ug/L	5		6010C	Dissolved
Chloride	5.0		0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	16		0.50	0.050	mg/L	1		300.0	Total/NA
Alkalinity - DL	3500		25	2.7	mg/L	5		310.1	Total/NA

Client Sample ID: PZ-114-AS**Lab Sample ID: 160-2044-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	4.5	J	5.0	0.35	ug/L	1		8260C	Total/NA
Benzene	7.4		5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	53		5.0	0.38	ug/L	1		8260C	Total/NA
Aluminum	540	J	1000	400	ug/L	5		6010C	Total/NA
Arsenic	420		50	9.9	ug/L	5		6010C	Total/NA
Barium	650		250	20	ug/L	5		6010C	Total/NA
Calcium	240000		5000	530	ug/L	5		6010C	Total/NA
Iron	99000		500	140	ug/L	5		6010C	Total/NA
Lead	9.5	J	50	7.5	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-114-AS (Continued)**Lab Sample ID: 160-2044-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	74000		5000	660	ug/L	5	6010C	Total/NA	
Manganese	3400		75	17	ug/L	5	6010C	Total/NA	
Sodium	110000		5000	1600	ug/L	5	6010C	Total/NA	
Vanadium	31 J		250	20	ug/L	5	6010C	Total/NA	
Zinc	42 J B		100	26	ug/L	5	6010C	Total/NA	
Arsenic	430		50	9.9	ug/L	5	6010C	Dissolved	
Arsenic	420		50	9.9	ug/L	5	6010C	Dissolved	
Arsenic	410		50	9.9	ug/L	5	6010C	Dissolved	
Barium	540		250	20	ug/L	5	6010C	Dissolved	
Barium	530		250	20	ug/L	5	6010C	Dissolved	
Barium	510		250	20	ug/L	5	6010C	Dissolved	
Calcium	240000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	240000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	230000		5000	530	ug/L	5	6010C	Dissolved	
Iron	96000		500	140	ug/L	5	6010C	Dissolved	
Iron	97000		500	140	ug/L	5	6010C	Dissolved	
Iron	91000		500	140	ug/L	5	6010C	Dissolved	
Lead	12 J		50	7.5	ug/L	5	6010C	Dissolved	
Lead	12 J		50	7.5	ug/L	5	6010C	Dissolved	
Magnesium	75000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	75000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	72000		5000	660	ug/L	5	6010C	Dissolved	
Manganese	3500		75	17	ug/L	5	6010C	Dissolved	
Manganese	3400		75	17	ug/L	5	6010C	Dissolved	
Manganese	3300		75	17	ug/L	5	6010C	Dissolved	
Sodium	110000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	110000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	110000		5000	1600	ug/L	5	6010C	Dissolved	
Zinc	29 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	33 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	33 J		100	26	ug/L	5	6010C	Dissolved	
Nitrate as N	0.038 H		0.020	0.0040	mg/L	1	300.0	Total/NA	
Bromide	0.54		0.25	0.025	mg/L	1	300.0	Total/NA	
Sulfate	0.84		0.50	0.050	mg/L	1	300.0	Total/NA	
Iodide	0.17 J		1.0	0.10	mg/L	1	300.0	Total/NA	
Alkalinity	740		5.0	0.54	mg/L	1	310.1	Total/NA	
Chloride - DL2	280		40	4.0	mg/L	200	300.0	Total/NA	

Client Sample ID: FB@PZ-201A-SS**Lab Sample ID: 160-2044-3**

No Detections.

Client Sample ID: PZ-201A-SS**Lab Sample ID: 160-2044-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.92	J	5.0	0.25	ug/L	1	8260C	Total/NA	
Arsenic	11	J	50	9.9	ug/L	5	6010C	Total/NA	
Barium	130	J	250	20	ug/L	5	6010C	Total/NA	
Calcium	110000		5000	530	ug/L	5	6010C	Total/NA	
Iron	520		500	140	ug/L	5	6010C	Total/NA	
Magnesium	51000		5000	660	ug/L	5	6010C	Total/NA	

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-201A-SS (Continued)**Lab Sample ID: 160-2044-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	87		75	17	ug/L	5	6010C	Total/NA	1
Sodium	18000		5000	1600	ug/L	5	6010C	Total/NA	2
Zinc	50 J B		100	26	ug/L	5	6010C	Total/NA	3
Barium	140 J		250	20	ug/L	5	6010C	Dissolved	4
Barium	130 J		250	20	ug/L	5	6010C	Dissolved	5
Barium	130 J		250	20	ug/L	5	6010C	Dissolved	6
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	7
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	8
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	9
Magnesium	50000		5000	660	ug/L	5	6010C	Dissolved	10
Magnesium	50000		5000	660	ug/L	5	6010C	Dissolved	11
Magnesium	49000		5000	660	ug/L	5	6010C	Dissolved	12
Sodium	13000		5000	1600	ug/L	5	6010C	Dissolved	13
Sodium	13000		5000	1600	ug/L	5	6010C	Dissolved	14
Sodium	13000		5000	1600	ug/L	5	6010C	Dissolved	15
Zinc	56 J		100	26	ug/L	5	6010C	Dissolved	16
Zinc	61 J		100	26	ug/L	5	6010C	Dissolved	17
Zinc	57 J		100	26	ug/L	5	6010C	Dissolved	18
Nitrate as N	0.32 H		0.020	0.0040	mg/L	1	300.0	Total/NA	19
Chloride	4.0		0.20	0.020	mg/L	1	300.0	Total/NA	20
Alkalinity	470		5.0	0.54	mg/L	1	310.1	Total/NA	21
Sulfate - DL	67		10	1.0	mg/L	20	300.0	Total/NA	22

Client Sample ID: PZ-204A-SS**Lab Sample ID: 160-2044-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	4500		1000	400	ug/L	5	6010C	Total/NA	1
Arsenic	23 J		50	9.9	ug/L	5	6010C	Total/NA	2
Barium	510		250	20	ug/L	5	6010C	Total/NA	3
Beryllium	4.5 J		25	3.1	ug/L	5	6010C	Total/NA	4
Cadmium	5.0 J		25	4.6	ug/L	5	6010C	Total/NA	5
Calcium	240000		5000	530	ug/L	5	6010C	Total/NA	6
Chromium	16 J		50	16	ug/L	5	6010C	Total/NA	7
Iron	10000		500	140	ug/L	5	6010C	Total/NA	8
Lead	18 J		50	7.5	ug/L	5	6010C	Total/NA	9
Magnesium	60000		5000	660	ug/L	5	6010C	Total/NA	10
Manganese	2500		75	17	ug/L	5	6010C	Total/NA	11
Potassium	16000 J		25000	8300	ug/L	5	6010C	Total/NA	12
Sodium	210000		5000	1600	ug/L	5	6010C	Total/NA	13
Zinc	67 J B		100	26	ug/L	5	6010C	Total/NA	14
Arsenic	12 J		50	9.9	ug/L	5	6010C	Dissolved	15
Arsenic	13 J		50	9.9	ug/L	5	6010C	Dissolved	16
Barium	400		250	20	ug/L	5	6010C	Dissolved	17
Barium	390		250	20	ug/L	5	6010C	Dissolved	18
Barium	390		250	20	ug/L	5	6010C	Dissolved	19
Calcium	220000		5000	530	ug/L	5	6010C	Dissolved	20
Calcium	220000		5000	530	ug/L	5	6010C	Dissolved	21
Calcium	220000		5000	530	ug/L	5	6010C	Dissolved	22
Iron	4000		500	140	ug/L	5	6010C	Dissolved	23
Iron	4000		500	140	ug/L	5	6010C	Dissolved	24

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-204A-SS (Continued)**Lab Sample ID: 160-2044-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4000		500	140	ug/L	5	6010C	Dissolved	
Magnesium	52000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	51000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	51000		5000	660	ug/L	5	6010C	Dissolved	
Manganese	2100		75	17	ug/L	5	6010C	Dissolved	
Manganese	2000		75	17	ug/L	5	6010C	Dissolved	
Manganese	2000		75	17	ug/L	5	6010C	Dissolved	
Potassium	15000 J		25000	8300	ug/L	5	6010C	Dissolved	
Potassium	15000 J		25000	8300	ug/L	5	6010C	Dissolved	
Potassium	15000 J		25000	8300	ug/L	5	6010C	Dissolved	
Sodium	210000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	200000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	200000		5000	1600	ug/L	5	6010C	Dissolved	
Zinc	33 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	44 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	33 J		100	26	ug/L	5	6010C	Dissolved	
Mercury	0.060 J		0.20	0.060	ug/L	1	7470A	Dissolved	
Bromide	0.12 J		0.25	0.025	mg/L	1	300.0	Total/NA	
Alkalinity	370		5.0	0.54	mg/L	1	310.1	Total/NA	
Sulfate - DL	230		10	1.0	mg/L	20	300.0	Total/NA	
Chloride - DL2	430		40	4.0	mg/L	200	300.0	Total/NA	

Client Sample ID: PZ-205-AS**Lab Sample ID: 160-2044-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	200		5.0	0.25	ug/L	1	8260C	Total/NA	
Chlorobenzene	65		5.0	0.38	ug/L	1	8260C	Total/NA	
Ethylbenzene	29 *		5.0	0.30	ug/L	1	8260C	Total/NA	
Isopropylbenzene	6.2		5.0	0.26	ug/L	1	8260C	Total/NA	
m-Xylene & p-Xylene	40		5.0	0.57	ug/L	1	8260C	Total/NA	
o-Xylene	8.8		5.0	0.32	ug/L	1	8260C	Total/NA	
Toluene	32		5.0	1.0	ug/L	1	8260C	Total/NA	
Xylenes, Total	49		10	0.85	ug/L	1	8260C	Total/NA	
Aluminum	2100		1000	400	ug/L	5	6010C	Total/NA	
Arsenic	32 J		50	9.9	ug/L	5	6010C	Total/NA	
Barium	1300		250	20	ug/L	5	6010C	Total/NA	
Calcium	290000 E		5000	530	ug/L	5	6010C	Total/NA	
Calcium	310000		10000	1100	ug/L	10	6010C	Total/NA	
Iron	36000		500	140	ug/L	5	6010C	Total/NA	
Lead	11 J		50	7.5	ug/L	5	6010C	Total/NA	
Magnesium	83000		5000	660	ug/L	5	6010C	Total/NA	
Manganese	650		75	17	ug/L	5	6010C	Total/NA	
Potassium	8900 J		25000	8300	ug/L	5	6010C	Total/NA	
Sodium	97000		5000	1600	ug/L	5	6010C	Total/NA	
Zinc	37 J B		100	26	ug/L	5	6010C	Total/NA	
Arsenic	25 J		50	9.9	ug/L	5	6010C	Dissolved	
Arsenic	21 J		100	20	ug/L	10	6010C	Dissolved	
Arsenic	25 J		50	9.9	ug/L	5	6010C	Dissolved	
Arsenic	15 J		50	9.9	ug/L	5	6010C	Dissolved	
Barium	1300		250	20	ug/L	5	6010C	Dissolved	

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-205-AS (Continued)**Lab Sample ID: 160-2044-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1300		500	40	ug/L	10		6010C	Dissolved
Barium	1200		250	20	ug/L	5		6010C	Dissolved
Barium	1200		500	40	ug/L	10		6010C	Dissolved
Barium	1200		250	20	ug/L	5		6010C	Dissolved
Calcium	310000	E	5000	530	ug/L	5		6010C	Dissolved
Calcium	320000		10000	1100	ug/L	10		6010C	Dissolved
Calcium	310000	E	5000	530	ug/L	5		6010C	Dissolved
Calcium	320000		10000	1100	ug/L	10		6010C	Dissolved
Calcium	300000	E	5000	530	ug/L	5		6010C	Dissolved
Calcium	310000		10000	1100	ug/L	10		6010C	Dissolved
Iron	33000		500	140	ug/L	5		6010C	Dissolved
Iron	33000		1000	280	ug/L	10		6010C	Dissolved
Iron	33000		500	140	ug/L	5		6010C	Dissolved
Iron	33000		1000	280	ug/L	10		6010C	Dissolved
Iron	32000		500	140	ug/L	5		6010C	Dissolved
Lead	11	J	50	7.5	ug/L	5		6010C	Dissolved
Lead	11	J	50	7.5	ug/L	5		6010C	Dissolved
Magnesium	83000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	85000		10000	1300	ug/L	10		6010C	Dissolved
Magnesium	82000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	82000		10000	1300	ug/L	10		6010C	Dissolved
Magnesium	80000		5000	660	ug/L	5		6010C	Dissolved
Manganese	630		75	17	ug/L	5		6010C	Dissolved
Manganese	640		150	33	ug/L	10		6010C	Dissolved
Manganese	610		75	17	ug/L	5		6010C	Dissolved
Manganese	600		150	33	ug/L	10		6010C	Dissolved
Manganese	590		75	17	ug/L	5		6010C	Dissolved
Potassium	8300	J	25000	8300	ug/L	5		6010C	Dissolved
Sodium	91000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	91000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	90000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	88000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	88000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	33	J	100	26	ug/L	5		6010C	Dissolved
Zinc	53	J	200	52	ug/L	10		6010C	Dissolved
Zinc	30	J	100	26	ug/L	5		6010C	Dissolved
Zinc	53	J	200	52	ug/L	10		6010C	Dissolved
Zinc	34	J	100	26	ug/L	5		6010C	Dissolved
Mercury	0.062	J	0.20	0.060	ug/L	1		7470A	Dissolved
Nitrate as N	0.14	H	0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	3.7		0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	0.34	J	0.50	0.050	mg/L	1		300.0	Total/NA
Iodide	0.67	J	1.0	0.10	mg/L	1		300.0	Total/NA
Alkalinity	800		5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL2	310		40	4.0	mg/L	200		300.0	Total/NA

Client Sample ID: PZ-205-SS**Lab Sample ID: 160-2044-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	140	J	250	20	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-205-SS (Continued)**Lab Sample ID: 160-2044-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	110000		5000	530	ug/L	5	6010C	Total/NA	
Iron	300	J	500	140	ug/L	5	6010C	Total/NA	
Magnesium	60000		5000	660	ug/L	5	6010C	Total/NA	
Sodium	13000		5000	1600	ug/L	5	6010C	Total/NA	
Zinc	37	J B	100	26	ug/L	5	6010C	Total/NA	
Barium	150	J	250	20	ug/L	5	6010C	Dissolved	
Barium	150	J	250	20	ug/L	5	6010C	Dissolved	
Barium	140	J	250	20	ug/L	5	6010C	Dissolved	
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	
Iron	150	J	500	140	ug/L	5	6010C	Dissolved	
Magnesium	61000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	61000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	59000		5000	660	ug/L	5	6010C	Dissolved	
Sodium	14000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	14000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	13000		5000	1600	ug/L	5	6010C	Dissolved	
Zinc	34	J	100	26	ug/L	5	6010C	Dissolved	
Zinc	35	J	100	26	ug/L	5	6010C	Dissolved	
Zinc	67	J	100	26	ug/L	5	6010C	Dissolved	
Mercury	0.064	J	0.20	0.060	ug/L	1	7470A	Dissolved	
Nitrate as N	0.011	J H	0.020	0.0040	mg/L	1	300.0	Total/NA	
Bromide	0.22	J	0.25	0.025	mg/L	1	300.0	Total/NA	
Alkalinity	420		5.0	0.54	mg/L	1	310.1	Total/NA	
Chloride - DL	33		4.0	0.40	mg/L	20	300.0	Total/NA	
Sulfate - DL	53		10	1.0	mg/L	20	300.0	Total/NA	

Client Sample ID: PZ-206-SS**Lab Sample ID: 160-2044-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1400		1000	400	ug/L	5	6010C	Total/NA	
Barium	82	J	250	20	ug/L	5	6010C	Total/NA	
Calcium	120000		5000	530	ug/L	5	6010C	Total/NA	
Iron	2400		500	140	ug/L	5	6010C	Total/NA	
Magnesium	73000		5000	660	ug/L	5	6010C	Total/NA	
Manganese	60	J	75	17	ug/L	5	6010C	Total/NA	
Sodium	15000		5000	1600	ug/L	5	6010C	Total/NA	
Zinc	42	J B	100	26	ug/L	5	6010C	Total/NA	
Barium	66	J	250	20	ug/L	5	6010C	Dissolved	
Barium	62	J	250	20	ug/L	5	6010C	Dissolved	
Barium	60	J	250	20	ug/L	5	6010C	Dissolved	
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	
Iron	210	J	500	140	ug/L	5	6010C	Dissolved	
Iron	220	J	500	140	ug/L	5	6010C	Dissolved	
Iron	180	J	500	140	ug/L	5	6010C	Dissolved	
Magnesium	71000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	71000		5000	660	ug/L	5	6010C	Dissolved	

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-206-SS (Continued)**Lab Sample ID: 160-2044-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	68000		5000	660	ug/L	5		6010C	Dissolved
Manganese	37 J		75	17	ug/L	5		6010C	Dissolved
Manganese	34 J		75	17	ug/L	5		6010C	Dissolved
Manganese	33 J		75	17	ug/L	5		6010C	Dissolved
Sodium	17000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	17000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	16000		5000	1600	ug/L	5		6010C	Dissolved
Vanadium	21 J		250	20	ug/L	5		6010C	Dissolved
Zinc	30 J		100	26	ug/L	5		6010C	Dissolved
Zinc	27 J		100	26	ug/L	5		6010C	Dissolved
Zinc	50 J		100	26	ug/L	5		6010C	Dissolved
Bromide	0.26		0.25	0.025	mg/L	1		300.0	Total/NA
Alkalinity	470		5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL	21		4.0	0.40	mg/L	20		300.0	Total/NA
Sulfate - DL	77		10	1.0	mg/L	20		300.0	Total/NA

Client Sample ID: PZ-204-SS**Lab Sample ID: 160-2044-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	2000		1000	400	ug/L	5		6010C	Total/NA
Barium	200 J		250	20	ug/L	5		6010C	Total/NA
Calcium	80000		5000	530	ug/L	5		6010C	Total/NA
Iron	4700		500	140	ug/L	5		6010C	Total/NA
Lead	11 J		50	7.5	ug/L	5		6010C	Total/NA
Magnesium	54000		5000	660	ug/L	5		6010C	Total/NA
Manganese	120		75	17	ug/L	5		6010C	Total/NA
Sodium	32000		5000	1600	ug/L	5		6010C	Total/NA
Zinc	79 J B		100	26	ug/L	5		6010C	Total/NA
Barium	170 J		250	20	ug/L	5		6010C	Dissolved
Barium	170 J		250	20	ug/L	5		6010C	Dissolved
Barium	160 J		250	20	ug/L	5		6010C	Dissolved
Calcium	78000		5000	530	ug/L	5		6010C	Dissolved
Calcium	78000		5000	530	ug/L	5		6010C	Dissolved
Calcium	73000		5000	530	ug/L	5		6010C	Dissolved
Iron	740		500	140	ug/L	5		6010C	Dissolved
Iron	740		500	140	ug/L	5		6010C	Dissolved
Iron	720		500	140	ug/L	5		6010C	Dissolved
Magnesium	52000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	51000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	50000		5000	660	ug/L	5		6010C	Dissolved
Manganese	110		75	17	ug/L	5		6010C	Dissolved
Manganese	110		75	17	ug/L	5		6010C	Dissolved
Manganese	100		75	17	ug/L	5		6010C	Dissolved
Sodium	31000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	30000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	29000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	33 J		100	26	ug/L	5		6010C	Dissolved
Zinc	27 J		100	26	ug/L	5		6010C	Dissolved
Zinc	31 J		100	26	ug/L	5		6010C	Dissolved
Nitrate as N	0.0067 J		0.020	0.0040	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-204-SS (Continued)**Lab Sample ID: 160-2044-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.9		0.20	0.020	mg/L	1	300.0		Total/NA
Alkalinity	440		5.0	0.54	mg/L	1	310.1		Total/NA
Sulfate - DL	22		10	1.0	mg/L	20	300.0		Total/NA

Client Sample ID: I-68**Lab Sample ID: 160-2044-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	46000		1000	400	ug/L	5	6010C		Total/NA
Arsenic	19 J		50	9.9	ug/L	5	6010C		Total/NA
Barium	1000		250	20	ug/L	5	6010C		Total/NA
Cadmium	11 J		25	4.6	ug/L	5	6010C		Total/NA
Calcium	300000 E		5000	530	ug/L	5	6010C		Total/NA
Calcium	320000		10000	1100	ug/L	10	6010C		Total/NA
Chromium	90		50	16	ug/L	5	6010C		Total/NA
Cobalt	39 J		250	20	ug/L	5	6010C		Total/NA
Copper	85 J		130	23	ug/L	5	6010C		Total/NA
Iron	35000		500	140	ug/L	5	6010C		Total/NA
Lead	140		50	7.5	ug/L	5	6010C		Total/NA
Magnesium	79000		5000	660	ug/L	5	6010C		Total/NA
Manganese	2200		75	17	ug/L	5	6010C		Total/NA
Nickel	160 J		200	67	ug/L	5	6010C		Total/NA
Potassium	15000 J		25000	8300	ug/L	5	6010C		Total/NA
Sodium	360000		5000	1600	ug/L	5	6010C		Total/NA
Vanadium	110 J		250	20	ug/L	5	6010C		Total/NA
Zinc	540 B		100	26	ug/L	5	6010C		Total/NA
Barium	620		250	20	ug/L	5	6010C		Dissolved
Barium	620		500	40	ug/L	10	6010C		Dissolved
Barium	600		250	20	ug/L	5	6010C		Dissolved
Barium	600		500	40	ug/L	10	6010C		Dissolved
Barium	570		250	20	ug/L	5	6010C		Dissolved
Calcium	220000		5000	530	ug/L	5	6010C		Dissolved
Calcium	220000		10000	1100	ug/L	10	6010C		Dissolved
Calcium	220000		5000	530	ug/L	5	6010C		Dissolved
Calcium	230000		10000	1100	ug/L	10	6010C		Dissolved
Calcium	210000		5000	530	ug/L	5	6010C		Dissolved
Iron	430 J		500	140	ug/L	5	6010C		Dissolved
Iron	450 J		1000	280	ug/L	10	6010C		Dissolved
Iron	430 J		500	140	ug/L	5	6010C		Dissolved
Iron	460 J		1000	280	ug/L	10	6010C		Dissolved
Iron	410 J		500	140	ug/L	5	6010C		Dissolved
Lead	8.0 J		50	7.5	ug/L	5	6010C		Dissolved
Lead	11 J		50	7.5	ug/L	5	6010C		Dissolved
Magnesium	58000		5000	660	ug/L	5	6010C		Dissolved
Magnesium	58000		10000	1300	ug/L	10	6010C		Dissolved
Magnesium	56000		5000	660	ug/L	5	6010C		Dissolved
Magnesium	57000		10000	1300	ug/L	10	6010C		Dissolved
Magnesium	54000		5000	660	ug/L	5	6010C		Dissolved
Manganese	1800		75	17	ug/L	5	6010C		Dissolved
Manganese	1800		150	33	ug/L	10	6010C		Dissolved
Manganese	1700		75	17	ug/L	5	6010C		Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: I-68 (Continued)**Lab Sample ID: 160-2044-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1700		150	33	ug/L	10		6010C	Dissolved
Manganese	1700		75	17	ug/L	5		6010C	Dissolved
Sodium	380000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	380000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	370000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	380000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	360000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	30 J		100	26	ug/L	5		6010C	Dissolved
Zinc	28 J		100	26	ug/L	5		6010C	Dissolved
Zinc	54 J		200	52	ug/L	10		6010C	Dissolved
Zinc	34 J		100	26	ug/L	5		6010C	Dissolved
Mercury	0.36		0.20	0.060	ug/L	1		7470A	Total/NA
Mercury	0.061 J		0.20	0.060	ug/L	1		7470A	Dissolved
Bromide	0.11 J		0.25	0.025	mg/L	1		300.0	Total/NA
Alkalinity	500		5.0	0.54	mg/L	1		310.1	Total/NA
Sulfate - DL	36		10	1.0	mg/L	20		300.0	Total/NA
Chloride - DL2	700		40	4.0	mg/L	200		300.0	Total/NA

Client Sample ID: D-87**Lab Sample ID: 160-2044-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	740	J	1000	400	ug/L	5		6010C	Total/NA
Barium	1400		250	20	ug/L	5		6010C	Total/NA
Calcium	280000 E		5000	530	ug/L	5		6010C	Total/NA
Calcium	300000		10000	1100	ug/L	10		6010C	Total/NA
Iron	33000		500	140	ug/L	5		6010C	Total/NA
Lead	10 J		50	7.5	ug/L	5		6010C	Total/NA
Magnesium	70000		5000	660	ug/L	5		6010C	Total/NA
Manganese	620		75	17	ug/L	5		6010C	Total/NA
Potassium	12000 J		25000	8300	ug/L	5		6010C	Total/NA
Sodium	190000		5000	1600	ug/L	5		6010C	Total/NA
Zinc	31 J B		100	26	ug/L	5		6010C	Total/NA
Barium	1400		250	20	ug/L	5		6010C	Dissolved
Barium	1400		500	40	ug/L	10		6010C	Dissolved
Barium	1400		250	20	ug/L	5		6010C	Dissolved
Barium	1400		500	40	ug/L	10		6010C	Dissolved
Barium	1300		250	20	ug/L	5		6010C	Dissolved
Calcium	290000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	300000		10000	1100	ug/L	10		6010C	Dissolved
Calcium	300000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	310000		10000	1100	ug/L	10		6010C	Dissolved
Calcium	280000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	300000		10000	1100	ug/L	10		6010C	Dissolved
Iron	34000		500	140	ug/L	5		6010C	Dissolved
Iron	34000		1000	280	ug/L	10		6010C	Dissolved
Iron	35000		500	140	ug/L	5		6010C	Dissolved
Iron	36000		1000	280	ug/L	10		6010C	Dissolved
Iron	33000		500	140	ug/L	5		6010C	Dissolved
Magnesium	72000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	73000		10000	1300	ug/L	10		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-87 (Continued)**Lab Sample ID: 160-2044-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	73000		5000	660	ug/L	5	6010C	Dissolved	1
Magnesium	73000		10000	1300	ug/L	10	6010C	Dissolved	2
Magnesium	69000		5000	660	ug/L	5	6010C	Dissolved	3
Manganese	640		75	17	ug/L	5	6010C	Dissolved	4
Manganese	670		150	33	ug/L	10	6010C	Dissolved	5
Manganese	640		75	17	ug/L	5	6010C	Dissolved	6
Manganese	630		150	33	ug/L	10	6010C	Dissolved	7
Manganese	610		75	17	ug/L	5	6010C	Dissolved	8
Potassium	12000 J		25000	8300	ug/L	5	6010C	Dissolved	9
Potassium	12000 J		25000	8300	ug/L	5	6010C	Dissolved	10
Potassium	11000 J		25000	8300	ug/L	5	6010C	Dissolved	11
Sodium	190000		5000	1600	ug/L	5	6010C	Dissolved	12
Sodium	190000		10000	3200	ug/L	10	6010C	Dissolved	13
Sodium	190000		5000	1600	ug/L	5	6010C	Dissolved	14
Sodium	190000		10000	3200	ug/L	10	6010C	Dissolved	15
Sodium	180000		5000	1600	ug/L	5	6010C	Dissolved	16
Vanadium	59 J		500	41	ug/L	10	6010C	Dissolved	17
Zinc	27 J		100	26	ug/L	5	6010C	Dissolved	18
Zinc	30 J		100	26	ug/L	5	6010C	Dissolved	19
Mercury	0.069 J		0.20	0.060	ug/L	1	7470A	Dissolved	20
Nitrate as N	0.0070 J		0.020	0.0040	mg/L	1	300.0	Total/NA	21
Bromide	4.7		0.25	0.025	mg/L	1	300.0	Total/NA	22
Sulfate	1.5		0.50	0.050	mg/L	1	300.0	Total/NA	23
Iodide	0.27 J		1.0	0.10	mg/L	1	300.0	Total/NA	24
Alkalinity	960		5.0	0.54	mg/L	1	310.1	Total/NA	25
Chloride - DL2	270		40	4.0	mg/L	200	300.0	Total/NA	26

Client Sample ID: PZ-106-SD**Lab Sample ID: 160-2044-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3300		1000	400	ug/L	5	6010C	Total/NA	1
Barium	140 J		250	20	ug/L	5	6010C	Total/NA	2
Calcium	120000		5000	530	ug/L	5	6010C	Total/NA	3
Iron	5000		500	140	ug/L	5	6010C	Total/NA	4
Lead	11 J		50	7.5	ug/L	5	6010C	Total/NA	5
Magnesium	54000		5000	660	ug/L	5	6010C	Total/NA	6
Manganese	170		75	17	ug/L	5	6010C	Total/NA	7
Sodium	11000		5000	1600	ug/L	5	6010C	Total/NA	8
Vanadium	20 J		250	20	ug/L	5	6010C	Total/NA	9
Zinc	66 J B		100	26	ug/L	5	6010C	Total/NA	10
Barium	99 J		250	20	ug/L	5	6010C	Dissolved	11
Barium	95 J		250	20	ug/L	5	6010C	Dissolved	12
Barium	94 J		250	20	ug/L	5	6010C	Dissolved	13
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	14
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	15
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	16
Iron	1100		500	140	ug/L	5	6010C	Dissolved	17
Iron	1100		500	140	ug/L	5	6010C	Dissolved	18
Iron	1100		500	140	ug/L	5	6010C	Dissolved	19
Magnesium	54000		5000	660	ug/L	5	6010C	Dissolved	20

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-106-SD (Continued)**Lab Sample ID: 160-2044-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	53000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	52000		5000	660	ug/L	5	6010C	Dissolved	
Manganese	130		75	17	ug/L	5	6010C	Dissolved	
Manganese	120		75	17	ug/L	5	6010C	Dissolved	
Manganese	120		75	17	ug/L	5	6010C	Dissolved	
Sodium	11000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	11000		5000	1600	ug/L	5	6010C	Dissolved	
Sodium	11000		5000	1600	ug/L	5	6010C	Dissolved	
Zinc	27 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	32 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	38 J		100	26	ug/L	5	6010C	Dissolved	
Mercury	0.062 J		0.20	0.060	ug/L	1	7470A	Dissolved	
Nitrate as N	0.0054 J		0.020	0.0040	mg/L	1	300.0	Total/NA	
Bromide	0.058 J		0.25	0.025	mg/L	1	300.0	Total/NA	
Alkalinity	390		5.0	0.54	mg/L	1	310.1	Total/NA	
Chloride - DL	12		4.0	0.40	mg/L	20	300.0	Total/NA	
Sulfate - DL	69		10	1.0	mg/L	20	300.0	Total/NA	

Client Sample ID: S-82**Lab Sample ID: 160-2044-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.87	J	5.0	0.38	ug/L	1	8260C	Total/NA	
cis-1,2-Dichloroethene	1.3	J	5.0	0.16	ug/L	1	8260C	Total/NA	
Aluminum	4300		1000	400	ug/L	5	6010C	Total/NA	
Arsenic	230		50	9.9	ug/L	5	6010C	Total/NA	
Barium	1300		250	20	ug/L	5	6010C	Total/NA	
Cadmium	6.0 J		25	4.6	ug/L	5	6010C	Total/NA	
Calcium	240000		5000	530	ug/L	5	6010C	Total/NA	
Chromium	17 J		50	16	ug/L	5	6010C	Total/NA	
Cobalt	62 J		250	20	ug/L	5	6010C	Total/NA	
Iron	59000		500	140	ug/L	5	6010C	Total/NA	
Lead	110		50	7.5	ug/L	5	6010C	Total/NA	
Magnesium	89000		5000	660	ug/L	5	6010C	Total/NA	
Manganese	2600		75	17	ug/L	5	6010C	Total/NA	
Nickel	180 J		200	67	ug/L	5	6010C	Total/NA	
Potassium	13000 J		25000	8300	ug/L	5	6010C	Total/NA	
Sodium	410000		5000	1600	ug/L	5	6010C	Total/NA	
Vanadium	44 J		250	20	ug/L	5	6010C	Total/NA	
Zinc	160 B		100	26	ug/L	5	6010C	Total/NA	
Arsenic	210		50	9.9	ug/L	5	6010C	Dissolved	
Arsenic	220		50	9.9	ug/L	5	6010C	Dissolved	
Arsenic	210		50	9.9	ug/L	5	6010C	Dissolved	
Barium	810		250	20	ug/L	5	6010C	Dissolved	
Barium	800		250	20	ug/L	5	6010C	Dissolved	
Barium	790		250	20	ug/L	5	6010C	Dissolved	
Calcium	190000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	200000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	190000		5000	530	ug/L	5	6010C	Dissolved	
Iron	39000		500	140	ug/L	5	6010C	Dissolved	
Iron	41000		500	140	ug/L	5	6010C	Dissolved	

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: S-82 (Continued)**Lab Sample ID: 160-2044-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	39000		500	140	ug/L	5	6010C	Dissolved	1
Lead	9.0 J		50	7.5	ug/L	5	6010C	Dissolved	2
Magnesium	80000		5000	660	ug/L	5	6010C	Dissolved	3
Magnesium	81000		5000	660	ug/L	5	6010C	Dissolved	4
Magnesium	80000		5000	660	ug/L	5	6010C	Dissolved	5
Manganese	1800		75	17	ug/L	5	6010C	Dissolved	6
Manganese	1700		75	17	ug/L	5	6010C	Dissolved	7
Manganese	1700		75	17	ug/L	5	6010C	Dissolved	8
Potassium	11000 J		25000	8300	ug/L	5	6010C	Dissolved	9
Potassium	11000 J		25000	8300	ug/L	5	6010C	Dissolved	10
Potassium	11000 J		25000	8300	ug/L	5	6010C	Dissolved	11
Sodium	440000		5000	1600	ug/L	5	6010C	Dissolved	12
Sodium	450000		5000	1600	ug/L	5	6010C	Dissolved	13
Sodium	430000		5000	1600	ug/L	5	6010C	Dissolved	
Zinc	33 J		100	26	ug/L	5	6010C	Dissolved	
Zinc	31 J		100	26	ug/L	5	6010C	Dissolved	
Mercury	0.068 J		0.20	0.060	ug/L	1	7470A	Dissolved	
Nitrate as N	0.017 J		0.020	0.0040	mg/L	1	300.0	Total/NA	
Bromide	4.0		0.25	0.025	mg/L	1	300.0	Total/NA	
Sulfate	16		0.50	0.050	mg/L	1	300.0	Total/NA	
Iodide	0.46 J		1.0	0.10	mg/L	1	300.0	Total/NA	
Alkalinity - DL	1200		25	2.7	mg/L	5	310.1	Total/NA	
Chloride - DL2	320		40	4.0	mg/L	200	300.0	Total/NA	

Client Sample ID: PZ-106-SS**Lab Sample ID: 160-2044-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12 J		50	9.9	ug/L	5	6010C	Total/NA	
Barium	150 J		250	20	ug/L	5	6010C	Total/NA	
Calcium	110000		5000	530	ug/L	5	6010C	Total/NA	
Iron	1000		500	140	ug/L	5	6010C	Total/NA	
Magnesium	51000		5000	660	ug/L	5	6010C	Total/NA	
Manganese	32 J		75	17	ug/L	5	6010C	Total/NA	
Sodium	15000		5000	1600	ug/L	5	6010C	Total/NA	
Zinc	28 J B		100	26	ug/L	5	6010C	Total/NA	
Barium	150 J		250	20	ug/L	5	6010C	Dissolved	
Barium	150 J		250	20	ug/L	5	6010C	Dissolved	
Barium	150 J		250	20	ug/L	5	6010C	Dissolved	
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	120000		5000	530	ug/L	5	6010C	Dissolved	
Calcium	110000		5000	530	ug/L	5	6010C	Dissolved	
Iron	830		500	140	ug/L	5	6010C	Dissolved	
Iron	870		500	140	ug/L	5	6010C	Dissolved	
Iron	820		500	140	ug/L	5	6010C	Dissolved	
Magnesium	52000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	52000		5000	660	ug/L	5	6010C	Dissolved	
Magnesium	50000		5000	660	ug/L	5	6010C	Dissolved	
Manganese	31 J		75	17	ug/L	5	6010C	Dissolved	
Manganese	32 J		75	17	ug/L	5	6010C	Dissolved	
Manganese	31 J		75	17	ug/L	5	6010C	Dissolved	

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-106-SS (Continued)**Lab Sample ID: 160-2044-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	16000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	15000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	32 J		100	26	ug/L	5		6010C	Dissolved
Zinc	39 J		100	26	ug/L	5		6010C	Dissolved
Zinc	34 J		100	26	ug/L	5		6010C	Dissolved
Mercury	0.066 J		0.20	0.060	ug/L	1		7470A	Dissolved
Nitrate as N	0.0040 J		0.020	0.0040	mg/L	1		300.0	Total/NA
Bromide	0.080 J		0.25	0.025	mg/L	1		300.0	Total/NA
Alkalinity	400		5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL	23		4.0	0.40	mg/L	20		300.0	Total/NA
Sulfate - DL	50		10	1.0	mg/L	20		300.0	Total/NA

Client Sample ID: I-9**Lab Sample ID: 160-2044-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.8 J		5.0	0.43	ug/L	1		8260C	Total/NA
Arsenic	26 J		50	9.9	ug/L	5		6010C	Total/NA
Barium	1400		250	20	ug/L	5		6010C	Total/NA
Calcium	260000 E		5000	530	ug/L	5		6010C	Total/NA
Calcium	270000		10000	1100	ug/L	10		6010C	Total/NA
Iron	34000		500	140	ug/L	5		6010C	Total/NA
Magnesium	72000		5000	660	ug/L	5		6010C	Total/NA
Manganese	1200		75	17	ug/L	5		6010C	Total/NA
Potassium	20000 J		25000	8300	ug/L	5		6010C	Total/NA
Sodium	250000		5000	1600	ug/L	5		6010C	Total/NA
Zinc	31 J B		100	26	ug/L	5		6010C	Total/NA
Arsenic	30 J		50	9.9	ug/L	5		6010C	Dissolved
Arsenic	27 J		50	9.9	ug/L	5		6010C	Dissolved
Arsenic	21 J		50	9.9	ug/L	5		6010C	Dissolved
Barium	1500		250	20	ug/L	5		6010C	Dissolved
Barium	1500		500	40	ug/L	10		6010C	Dissolved
Barium	1500		250	20	ug/L	5		6010C	Dissolved
Barium	1500		500	40	ug/L	10		6010C	Dissolved
Barium	1400		250	20	ug/L	5		6010C	Dissolved
Calcium	270000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	280000		10000	1100	ug/L	10		6010C	Dissolved
Calcium	280000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	290000		10000	1100	ug/L	10		6010C	Dissolved
Calcium	260000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	270000		10000	1100	ug/L	10		6010C	Dissolved
Iron	35000		500	140	ug/L	5		6010C	Dissolved
Iron	34000		1000	280	ug/L	10		6010C	Dissolved
Iron	36000		500	140	ug/L	5		6010C	Dissolved
Iron	36000		1000	280	ug/L	10		6010C	Dissolved
Iron	34000		500	140	ug/L	5		6010C	Dissolved
Lead	9.0 J		50	7.5	ug/L	5		6010C	Dissolved
Magnesium	74000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	75000		10000	1300	ug/L	10		6010C	Dissolved
Magnesium	73000		5000	660	ug/L	5		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: I-9 (Continued)**Lab Sample ID: 160-2044-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	74000		10000	1300	ug/L	10		6010C	Dissolved
Magnesium	71000		5000	660	ug/L	5		6010C	Dissolved
Manganese	1200		75	17	ug/L	5		6010C	Dissolved
Manganese	1200		150	33	ug/L	10		6010C	Dissolved
Manganese	1200		75	17	ug/L	5		6010C	Dissolved
Manganese	1200		150	33	ug/L	10		6010C	Dissolved
Manganese	1100		75	17	ug/L	5		6010C	Dissolved
Potassium	20000 J		25000	8300	ug/L	5		6010C	Dissolved
Potassium	20000 J		50000	17000	ug/L	10		6010C	Dissolved
Potassium	20000 J		25000	8300	ug/L	5		6010C	Dissolved
Potassium	21000 J		50000	17000	ug/L	10		6010C	Dissolved
Potassium	20000 J		25000	8300	ug/L	5		6010C	Dissolved
Sodium	250000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	250000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	250000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	250000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	240000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	29 J		100	26	ug/L	5		6010C	Dissolved
Zinc	32 J		100	26	ug/L	5		6010C	Dissolved
Mercury	0.066 J		0.20	0.060	ug/L	1		7470A	Dissolved
Bromide	4.0		0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	0.26 J		0.50	0.050	mg/L	1		300.0	Total/NA
Iodide	0.40 J		1.0	0.10	mg/L	1		300.0	Total/NA
Alkalinity - DL	1100		25	2.7	mg/L	5		310.1	Total/NA
Chloride - DL2	320		40	4.0	mg/L	200		300.0	Total/NA

Client Sample ID: D-93**Lab Sample ID: 160-2044-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6 J		5.0	0.25	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		5.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	23		5.0	0.43	ug/L	1		8260C	Total/NA
Aluminum	1100		1000	400	ug/L	5		6010C	Total/NA
Barium	1400		250	20	ug/L	5		6010C	Total/NA
Calcium	290000 E		5000	530	ug/L	5		6010C	Total/NA
Calcium	290000		10000	1100	ug/L	10		6010C	Total/NA
Iron	21000		500	140	ug/L	5		6010C	Total/NA
Lead	9.5 J		50	7.5	ug/L	5		6010C	Total/NA
Magnesium	81000		5000	660	ug/L	5		6010C	Total/NA
Manganese	450		75	17	ug/L	5		6010C	Total/NA
Potassium	16000 J		25000	8300	ug/L	5		6010C	Total/NA
Sodium	220000		5000	1600	ug/L	5		6010C	Total/NA
Zinc	31 J B		100	26	ug/L	5		6010C	Total/NA
Barium	1400		250	20	ug/L	5		6010C	Dissolved
Barium	1400		500	40	ug/L	10		6010C	Dissolved
Barium	1400		250	20	ug/L	5		6010C	Dissolved
Barium	1400		500	40	ug/L	10		6010C	Dissolved
Barium	1400		250	20	ug/L	5		6010C	Dissolved
Calcium	300000 E		5000	530	ug/L	5		6010C	Dissolved
Calcium	310000		10000	1100	ug/L	10		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-93 (Continued)**Lab Sample ID: 160-2044-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	320000	E	5000	530	ug/L	5	6010C	Dissolved	1
Calcium	330000		10000	1100	ug/L	10	6010C	Dissolved	2
Calcium	290000	E	5000	530	ug/L	5	6010C	Dissolved	3
Calcium	310000		10000	1100	ug/L	10	6010C	Dissolved	4
Iron	21000		500	140	ug/L	5	6010C	Dissolved	5
Iron	21000		1000	280	ug/L	10	6010C	Dissolved	6
Iron	22000		500	140	ug/L	5	6010C	Dissolved	7
Iron	22000		1000	280	ug/L	10	6010C	Dissolved	8
Iron	20000		500	140	ug/L	5	6010C	Dissolved	9
Lead	8.0	J	50	7.5	ug/L	5	6010C	Dissolved	10
Magnesium	82000		5000	660	ug/L	5	6010C	Dissolved	11
Magnesium	84000		10000	1300	ug/L	10	6010C	Dissolved	12
Magnesium	84000		5000	660	ug/L	5	6010C	Dissolved	13
Magnesium	84000		10000	1300	ug/L	10	6010C	Dissolved	14
Magnesium	79000		5000	660	ug/L	5	6010C	Dissolved	15
Manganese	430		75	17	ug/L	5	6010C	Dissolved	16
Manganese	440		150	33	ug/L	10	6010C	Dissolved	17
Manganese	430		75	17	ug/L	5	6010C	Dissolved	18
Manganese	430		150	33	ug/L	10	6010C	Dissolved	19
Manganese	410		75	17	ug/L	5	6010C	Dissolved	20
Potassium	16000	J	25000	8300	ug/L	5	6010C	Dissolved	21
Potassium	17000	J	25000	8300	ug/L	5	6010C	Dissolved	22
Potassium	16000	J	25000	8300	ug/L	5	6010C	Dissolved	23
Sodium	220000		5000	1600	ug/L	5	6010C	Dissolved	24
Sodium	220000		10000	3200	ug/L	10	6010C	Dissolved	25
Sodium	230000		5000	1600	ug/L	5	6010C	Dissolved	26
Sodium	220000		10000	3200	ug/L	10	6010C	Dissolved	27
Sodium	210000		5000	1600	ug/L	5	6010C	Dissolved	28
Zinc	28	J	100	26	ug/L	5	6010C	Dissolved	29
Zinc	52	J	200	52	ug/L	10	6010C	Dissolved	30
Zinc	29	J	100	26	ug/L	5	6010C	Dissolved	31
Mercury	0.065	J	0.20	0.060	ug/L	1	7470A	Dissolved	32
Bromide	4.4		0.25	0.025	mg/L	1	300.0	Total/NA	33
Sulfate	8.5		0.50	0.050	mg/L	1	300.0	Total/NA	34
Iodide	0.37	J	1.0	0.10	mg/L	1	300.0	Total/NA	35
Alkalinity	210		5.0	0.54	mg/L	1	310.1	Total/NA	36
Chloride - DL2	350		40	4.0	mg/L	200	300.0	Total/NA	37

Client Sample ID: PZ-111-KS**Lab Sample ID: 160-2044-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1500		1000	400	ug/L	5	6010C	Total/NA	1
Arsenic	13	J	50	9.9	ug/L	5	6010C	Total/NA	2
Calcium	10000		5000	530	ug/L	5	6010C	Total/NA	3
Iron	700		500	140	ug/L	5	6010C	Total/NA	4
Magnesium	6700		5000	660	ug/L	5	6010C	Total/NA	5
Sodium	400000		5000	1600	ug/L	5	6010C	Total/NA	6
Zinc	42	J B	100	26	ug/L	5	6010C	Total/NA	7
Calcium	9900		5000	530	ug/L	5	6010C	Dissolved	8
Calcium	10000		5000	530	ug/L	5	6010C	Dissolved	9

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-111-KS (Continued)**Lab Sample ID: 160-2044-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	9900		5000	530	ug/L	5	6010C		Dissolved
Iron	180	J	500	140	ug/L	5	6010C		Dissolved
Iron	180	J	500	140	ug/L	5	6010C		Dissolved
Iron	170	J	500	140	ug/L	5	6010C		Dissolved
Magnesium	6600		5000	660	ug/L	5	6010C		Dissolved
Magnesium	6500		5000	660	ug/L	5	6010C		Dissolved
Magnesium	6400		5000	660	ug/L	5	6010C		Dissolved
Sodium	410000		5000	1600	ug/L	5	6010C		Dissolved
Sodium	410000		5000	1600	ug/L	5	6010C		Dissolved
Sodium	390000		5000	1600	ug/L	5	6010C		Dissolved
Zinc	30	J	100	26	ug/L	5	6010C		Dissolved
Zinc	31	J	100	26	ug/L	5	6010C		Dissolved
Nitrate as N	0.0074	J		0.020	mg/L	1	300.0		Total/NA
Bromide	0.52			0.025	mg/L	1	300.0		Total/NA
Alkalinity	610			0.54	mg/L	1	310.1		Total/NA
Sulfate - DL	71			1.0	mg/L	20	300.0		Total/NA
Chloride - DL2	150			4.0	mg/L	200	300.0		Total/NA

Client Sample ID: D-6**Lab Sample ID: 160-2044-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	6.2		5.0	0.40	ug/L	1	8260C		Total/NA
Aluminum	740	J	1000	400	ug/L	5	6010C		Total/NA
Barium	1300		250	20	ug/L	5	6010C		Total/NA
Calcium	230000		5000	530	ug/L	5	6010C		Total/NA
Iron	18000		500	140	ug/L	5	6010C		Total/NA
Magnesium	61000		5000	660	ug/L	5	6010C		Total/NA
Manganese	610		75	17	ug/L	5	6010C		Total/NA
Potassium	13000	J	25000	8300	ug/L	5	6010C		Total/NA
Sodium	140000		5000	1600	ug/L	5	6010C		Total/NA
Zinc	31	J B	100	26	ug/L	5	6010C		Total/NA
Barium	1300		250	20	ug/L	5	6010C		Dissolved
Barium	1300		250	20	ug/L	5	6010C		Dissolved
Barium	1300		250	20	ug/L	5	6010C		Dissolved
Calcium	240000		5000	530	ug/L	5	6010C		Dissolved
Calcium	250000		5000	530	ug/L	5	6010C		Dissolved
Calcium	240000		5000	530	ug/L	5	6010C		Dissolved
Iron	17000		500	140	ug/L	5	6010C		Dissolved
Iron	18000		500	140	ug/L	5	6010C		Dissolved
Iron	18000		500	140	ug/L	5	6010C		Dissolved
Lead	12	J	50	7.5	ug/L	5	6010C		Dissolved
Magnesium	63000		5000	660	ug/L	5	6010C		Dissolved
Magnesium	63000		5000	660	ug/L	5	6010C		Dissolved
Magnesium	61000		5000	660	ug/L	5	6010C		Dissolved
Manganese	600		75	17	ug/L	5	6010C		Dissolved
Manganese	590		75	17	ug/L	5	6010C		Dissolved
Manganese	570		75	17	ug/L	5	6010C		Dissolved
Potassium	13000	J	25000	8300	ug/L	5	6010C		Dissolved
Potassium	14000	J	25000	8300	ug/L	5	6010C		Dissolved
Potassium	13000	J	25000	8300	ug/L	5	6010C		Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-6 (Continued)**Lab Sample ID: 160-2044-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	140000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	150000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	140000		5000	1600	ug/L	5		6010C	Dissolved
Vanadium	20 J		250	20	ug/L	5		6010C	Dissolved
Zinc	26 J		100	26	ug/L	5		6010C	Dissolved
Zinc	29 J		100	26	ug/L	5		6010C	Dissolved
Mercury	0.066 J		0.20	0.060	ug/L	1		7470A	Dissolved
Bromide	2.2		0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	9.9		0.50	0.050	mg/L	1		300.0	Total/NA
Iodide	0.20 J		1.0	0.10	mg/L	1		300.0	Total/NA
Alkalinity	610		5.0	0.54	mg/L	1		310.1	Total/NA
Chloride - DL2	190		40	4.0	mg/L	200		300.0	Total/NA

Client Sample ID: D-83**Lab Sample ID: 160-2044-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.76 J		5.0	0.38	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.1 J		5.0	0.40	ug/L	1		8260C	Total/NA
Barium	1800		250	20	ug/L	5		6010C	Total/NA
Calcium	110000		5000	530	ug/L	5		6010C	Total/NA
Iron	15000		500	140	ug/L	5		6010C	Total/NA
Magnesium	35000		5000	660	ug/L	5		6010C	Total/NA
Manganese	350		75	17	ug/L	5		6010C	Total/NA
Potassium	41000		25000	8300	ug/L	5		6010C	Total/NA
Sodium	76000		5000	1600	ug/L	5		6010C	Total/NA
Zinc	35 J B		100	26	ug/L	5		6010C	Total/NA
Barium	1900		250	20	ug/L	5		6010C	Dissolved
Barium	1900		250	20	ug/L	5		6010C	Dissolved
Barium	1900		250	20	ug/L	5		6010C	Dissolved
Calcium	120000		5000	530	ug/L	5		6010C	Dissolved
Calcium	120000		5000	530	ug/L	5		6010C	Dissolved
Calcium	120000		5000	530	ug/L	5		6010C	Dissolved
Iron	16000		500	140	ug/L	5		6010C	Dissolved
Iron	17000		500	140	ug/L	5		6010C	Dissolved
Iron	16000		500	140	ug/L	5		6010C	Dissolved
Magnesium	38000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	37000		5000	660	ug/L	5		6010C	Dissolved
Magnesium	37000		5000	660	ug/L	5		6010C	Dissolved
Manganese	390		75	17	ug/L	5		6010C	Dissolved
Manganese	380		75	17	ug/L	5		6010C	Dissolved
Manganese	370		75	17	ug/L	5		6010C	Dissolved
Potassium	43000		25000	8300	ug/L	5		6010C	Dissolved
Potassium	45000		25000	8300	ug/L	5		6010C	Dissolved
Potassium	43000		25000	8300	ug/L	5		6010C	Dissolved
Sodium	87000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	87000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	85000		5000	1600	ug/L	5		6010C	Dissolved
Zinc	27 J		100	26	ug/L	5		6010C	Dissolved
Zinc	28 J		100	26	ug/L	5		6010C	Dissolved
Zinc	32 J		100	26	ug/L	5		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-83 (Continued)**Lab Sample ID: 160-2044-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.043		0.020	0.0040	mg/L	1	300.0		Total/NA
Bromide	1.1		0.25	0.025	mg/L	1	300.0		Total/NA
Sulfate	13		0.50	0.050	mg/L	1	300.0		Total/NA
Alkalinity	730		5.0	0.54	mg/L	1	310.1		Total/NA
Chloride - DL	75		4.0	0.40	mg/L	20	300.0		Total/NA

Client Sample ID: DUP05**Lab Sample ID: 160-2044-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.4	J	5.0	0.43	ug/L	1	8260C		Total/NA
Arsenic	24	J	50	9.9	ug/L	5	6010C		Total/NA
Barium	1400		250	20	ug/L	5	6010C		Total/NA
Calcium	260000	E	5000	530	ug/L	5	6010C		Total/NA
Calcium	270000		10000	1100	ug/L	10	6010C		Total/NA
Iron	34000		500	140	ug/L	5	6010C		Total/NA
Magnesium	71000		5000	660	ug/L	5	6010C		Total/NA
Manganese	1100		75	17	ug/L	5	6010C		Total/NA
Potassium	20000	J	25000	8300	ug/L	5	6010C		Total/NA
Sodium	240000		5000	1600	ug/L	5	6010C		Total/NA
Zinc	27	J B	100	26	ug/L	5	6010C		Total/NA
Arsenic	32	J	50	9.9	ug/L	5	6010C		Dissolved
Arsenic	30	J	100	20	ug/L	10	6010C		Dissolved
Arsenic	28	J	50	9.9	ug/L	5	6010C		Dissolved
Arsenic	24	J	50	9.9	ug/L	5	6010C		Dissolved
Barium	1500		250	20	ug/L	5	6010C		Dissolved
Barium	1500		500	40	ug/L	10	6010C		Dissolved
Barium	1500		250	20	ug/L	5	6010C		Dissolved
Barium	1500		500	40	ug/L	10	6010C		Dissolved
Barium	1500		250	20	ug/L	5	6010C		Dissolved
Calcium	280000	E	5000	530	ug/L	5	6010C		Dissolved
Calcium	280000		10000	1100	ug/L	10	6010C		Dissolved
Calcium	290000	E	5000	530	ug/L	5	6010C		Dissolved
Calcium	300000		10000	1100	ug/L	10	6010C		Dissolved
Calcium	290000		10000	1100	ug/L	10	6010C		Dissolved
Iron	35000		500	140	ug/L	5	6010C		Dissolved
Iron	35000		1000	280	ug/L	10	6010C		Dissolved
Iron	37000		500	140	ug/L	5	6010C		Dissolved
Iron	37000		1000	280	ug/L	10	6010C		Dissolved
Iron	35000		500	140	ug/L	5	6010C		Dissolved
Lead	9.0	J	50	7.5	ug/L	5	6010C		Dissolved
Lead	19	J	100	15	ug/L	10	6010C		Dissolved
Lead	9.5	J	50	7.5	ug/L	5	6010C		Dissolved
Magnesium	77000		5000	660	ug/L	5	6010C		Dissolved
Magnesium	77000		10000	1300	ug/L	10	6010C		Dissolved
Magnesium	76000		5000	660	ug/L	5	6010C		Dissolved
Magnesium	77000		10000	1300	ug/L	10	6010C		Dissolved
Magnesium	72000		5000	660	ug/L	5	6010C		Dissolved
Manganese	1200		75	17	ug/L	5	6010C		Dissolved
Manganese	1300		150	33	ug/L	10	6010C		Dissolved
Manganese	1200		75	17	ug/L	5	6010C		Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: DUP05 (Continued)**Lab Sample ID: 160-2044-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1200		150	33	ug/L	10		6010C	Dissolved
Manganese	1100		75	17	ug/L	5		6010C	Dissolved
Potassium	21000	J	25000	8300	ug/L	5		6010C	Dissolved
Potassium	21000	J	50000	17000	ug/L	10		6010C	Dissolved
Potassium	21000	J	25000	8300	ug/L	5		6010C	Dissolved
Potassium	21000	J	50000	17000	ug/L	10		6010C	Dissolved
Potassium	20000	J	25000	8300	ug/L	5		6010C	Dissolved
Sodium	260000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	260000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	260000		5000	1600	ug/L	5		6010C	Dissolved
Sodium	260000		10000	3200	ug/L	10		6010C	Dissolved
Sodium	250000		5000	1600	ug/L	5		6010C	Dissolved
Vanadium	22	J	250	20	ug/L	5		6010C	Dissolved
Zinc	31	J	100	26	ug/L	5		6010C	Dissolved
Zinc	69	J	200	52	ug/L	10		6010C	Dissolved
Zinc	37	J	100	26	ug/L	5		6010C	Dissolved
Mercury	0.064	J	0.20	0.060	ug/L	1		7470A	Dissolved
Bromide	4.0		0.25	0.025	mg/L	1		300.0	Total/NA
Sulfate	0.31	J	0.50	0.050	mg/L	1		300.0	Total/NA
Iodide	0.40	J	1.0	0.10	mg/L	1		300.0	Total/NA
Nitrate as N - DL	2.1		0.40	0.080	mg/L	20		300.0	Total/NA
Alkalinity - DL	1000		25	2.7	mg/L	5		310.1	Total/NA
Chloride - DL2	310		40	4.0	mg/L	200		300.0	Total/NA

Client Sample ID: TRIP BLANK**Lab Sample ID: 160-2044-21**

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-103-SS

Lab Sample ID: 160-2044-1

Matrix: Water

Date Collected: 04/08/13 11:15

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 11:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 11:11	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 11:11	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 11:11	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 11:11	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 11:11	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 11:11	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 11:11	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 11:11	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 11:11	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 11:11	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 11:11	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 11:11	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 11:11	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 11:11	1
Acetone	ND		20	6.7	ug/L			04/11/13 11:11	1
Benzene	4.1 J		5.0	0.25	ug/L			04/11/13 11:11	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 11:11	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 11:11	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 11:11	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 11:11	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 11:11	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 11:11	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 11:11	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 11:11	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 11:11	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 11:11	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 11:11	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 11:11	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 11:11	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 11:11	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 11:11	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 11:11	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 11:11	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 11:11	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 11:11	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 11:11	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 11:11	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 11:11	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 11:11	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 11:11	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 11:11	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 11:11	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 11:11	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 11:11	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 11:11	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 11:11	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 11:11	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 11:11	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-103-SS

Date Collected: 04/08/13 11:15

Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		82 - 132		04/11/13 11:11	1
4-Bromofluorobenzene (Surr)	85		82 - 121		04/11/13 11:11	1
Dibromofluoromethane (Surr)	102		85 - 119		04/11/13 11:11	1
Toluene-d8 (Surr)	91		85 - 115		04/11/13 11:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8100		1000	400	ug/L		04/11/13 13:32	04/15/13 16:55	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 16:55	5
Arsenic	13 J		50	9.9	ug/L		04/11/13 13:32	04/15/13 16:55	5
Barium	620		250	20	ug/L		04/11/13 13:32	04/15/13 16:55	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 16:55	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 16:55	5
Calcium	150000		5000	530	ug/L		04/11/13 13:32	04/15/13 16:55	5
Chromium	24 J		50	16	ug/L		04/11/13 13:32	04/15/13 16:55	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 16:55	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 16:55	5
Iron	26000		500	140	ug/L		04/11/13 13:32	04/15/13 16:55	5
Lead	14 J		50	7.5	ug/L		04/11/13 13:32	04/15/13 16:55	5
Magnesium	72000		5000	660	ug/L		04/11/13 13:32	04/15/13 16:55	5
Manganese	430		75	17	ug/L		04/11/13 13:32	04/15/13 16:55	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 16:55	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 16:55	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 16:55	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 16:55	5
Sodium	56000		5000	1600	ug/L		04/11/13 13:32	04/15/13 16:55	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 16:55	5
Vanadium	35 J		250	20	ug/L		04/11/13 13:32	04/15/13 16:55	5
Zinc	110 B		100	26	ug/L		04/11/13 13:32	04/15/13 16:55	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 16:49	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 15:33	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 16:42	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 16:49	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 15:33	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 16:42	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 16:49	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 15:33	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 16:42	5
Barium	580		250	20	ug/L		04/11/13 13:35	04/17/13 16:49	5
Barium	570		250	20	ug/L		04/11/13 13:35	04/18/13 15:33	5
Barium	560		250	20	ug/L		04/11/13 13:35	04/19/13 16:42	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 16:49	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 15:33	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 16:42	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 16:49	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 15:33	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 16:42	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-103-SS

Lab Sample ID: 160-2044-1

Matrix: Water

Date Collected: 04/08/13 11:15

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		5000	530	ug/L		04/11/13 13:35	04/17/13 16:49	5
Calcium	140000		5000	530	ug/L		04/11/13 13:35	04/18/13 15:33	5
Calcium	140000		5000	530	ug/L		04/11/13 13:35	04/19/13 16:42	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 16:49	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 15:33	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 16:42	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 16:49	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:33	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:42	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 16:49	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 15:33	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 16:42	5
Iron	19000		500	140	ug/L		04/11/13 13:35	04/17/13 16:49	5
Iron	19000		500	140	ug/L		04/11/13 13:35	04/18/13 15:33	5
Iron	18000		500	140	ug/L		04/11/13 13:35	04/19/13 16:42	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 16:49	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 15:33	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 16:42	5
Magnesium	69000		5000	660	ug/L		04/11/13 13:35	04/17/13 16:49	5
Magnesium	69000		5000	660	ug/L		04/11/13 13:35	04/18/13 15:33	5
Magnesium	66000		5000	660	ug/L		04/11/13 13:35	04/19/13 16:42	5
Manganese	370		75	17	ug/L		04/11/13 13:35	04/17/13 16:49	5
Manganese	370		75	17	ug/L		04/11/13 13:35	04/18/13 15:33	5
Manganese	350		75	17	ug/L		04/11/13 13:35	04/19/13 16:42	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 16:49	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 15:33	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 16:42	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 16:49	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 15:33	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 16:42	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 16:49	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 15:33	5
Selenium	15 J		75	13	ug/L		04/11/13 13:35	04/19/13 16:42	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 16:49	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 15:33	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 16:42	5
Sodium	55000		5000	1600	ug/L		04/11/13 13:35	04/17/13 16:49	5
Sodium	55000		5000	1600	ug/L		04/11/13 13:35	04/18/13 15:33	5
Sodium	54000		5000	1600	ug/L		04/11/13 13:35	04/19/13 16:42	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 16:49	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 15:33	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 16:42	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 16:49	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:33	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:42	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 16:49	5
Zinc	28 J		100	26	ug/L		04/11/13 13:35	04/18/13 15:33	5
Zinc	31 J		100	26	ug/L		04/11/13 13:35	04/19/13 16:42	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-103-SS**Lab Sample ID: 160-2044-1**

Matrix: Water

Date Collected: 04/08/13 11:15
 Date Received: 04/10/13 08:33

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:30	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	0.020	0.0040	mg/L			04/10/13 17:30	1
Chloride	5.0		0.20	0.020	mg/L			04/10/13 17:30	1
Bromide	ND		0.25	0.025	mg/L			04/10/13 17:30	1
Sulfate	16		0.50	0.050	mg/L			04/10/13 17:30	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 19:07	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	3500		25	2.7	mg/L			04/12/13 12:28	5

Client Sample ID: PZ-114-AS**Lab Sample ID: 160-2044-2**

Matrix: Water

Date Collected: 04/08/13 11:45
 Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 11:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 11:35	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 11:35	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 11:35	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 11:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 11:35	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 11:35	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 11:35	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 11:35	1
1,2-Dichloropropene	ND		5.0	0.32	ug/L			04/11/13 11:35	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 11:35	1
1,4-Dichlorobenzene	4.5 J		5.0	0.35	ug/L			04/11/13 11:35	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 11:35	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 11:35	1
Acetone	ND		20	6.7	ug/L			04/11/13 11:35	1
Benzene	7.4		5.0	0.25	ug/L			04/11/13 11:35	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 11:35	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 11:35	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 11:35	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 11:35	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 11:35	1
Chlorobenzene	53		5.0	0.38	ug/L			04/11/13 11:35	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 11:35	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 11:35	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 11:35	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-114-AS**Lab Sample ID: 160-2044-2**

Matrix: Water

Date Collected: 04/08/13 11:45

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 11:35	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 11:35	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 11:35	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 11:35	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 11:35	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 11:35	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 11:35	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 11:35	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 11:35	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 11:35	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 11:35	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 11:35	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 11:35	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 11:35	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 11:35	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 11:35	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 11:35	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 11:35	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 11:35	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 11:35	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 11:35	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 11:35	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		82 - 132					04/11/13 11:35	1
4-Bromofluorobenzene (Surr)	85		82 - 121					04/11/13 11:35	1
Dibromofluoromethane (Surr)	100		85 - 119					04/11/13 11:35	1
Toluene-d8 (Surr)	89		85 - 115					04/11/13 11:35	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	540	J	1000	400	ug/L			04/11/13 13:32	04/15/13 16:59
Antimony	ND		50	20	ug/L			04/11/13 13:32	04/15/13 16:59
Arsenic	420		50	9.9	ug/L			04/11/13 13:32	04/15/13 16:59
Barium	650		250	20	ug/L			04/11/13 13:32	04/15/13 16:59
Beryllium	ND		25	3.1	ug/L			04/11/13 13:32	04/15/13 16:59
Cadmium	ND		25	4.6	ug/L			04/11/13 13:32	04/15/13 16:59
Calcium	240000		5000	530	ug/L			04/11/13 13:32	04/15/13 16:59
Chromium	ND		50	16	ug/L			04/11/13 13:32	04/15/13 16:59
Cobalt	ND		250	20	ug/L			04/11/13 13:32	04/15/13 16:59
Copper	ND		130	23	ug/L			04/11/13 13:32	04/15/13 16:59
Iron	99000		500	140	ug/L			04/11/13 13:32	04/15/13 16:59
Lead	9.5	J	50	7.5	ug/L			04/11/13 13:32	04/15/13 16:59
Magnesium	74000		5000	660	ug/L			04/11/13 13:32	04/15/13 16:59
Manganese	3400		75	17	ug/L			04/11/13 13:32	04/15/13 16:59
Nickel	ND		200	67	ug/L			04/11/13 13:32	04/15/13 16:59
Potassium	ND		25000	8300	ug/L			04/11/13 13:32	04/15/13 16:59
Selenium	ND		75	13	ug/L			04/11/13 13:32	04/15/13 16:59
Silver	ND		50	30	ug/L			04/11/13 13:32	04/15/13 16:59

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-114-AS**Lab Sample ID: 160-2044-2****Matrix: Water**

Date Collected: 04/08/13 11:45

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	110000		5000	1600	ug/L		04/11/13 13:32	04/15/13 16:59	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 16:59	5
Vanadium	31 J		250	20	ug/L		04/11/13 13:32	04/15/13 16:59	5
Zinc	42 J B		100	26	ug/L		04/11/13 13:32	04/15/13 16:59	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 16:53	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 15:37	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 16:46	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 16:53	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 15:37	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 16:46	5
Arsenic	430		50	9.9	ug/L		04/11/13 13:35	04/17/13 16:53	5
Arsenic	420		50	9.9	ug/L		04/11/13 13:35	04/18/13 15:37	5
Arsenic	410		50	9.9	ug/L		04/11/13 13:35	04/19/13 16:46	5
Barium	540		250	20	ug/L		04/11/13 13:35	04/17/13 16:53	5
Barium	530		250	20	ug/L		04/11/13 13:35	04/18/13 15:37	5
Barium	510		250	20	ug/L		04/11/13 13:35	04/19/13 16:46	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 16:53	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 15:37	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 16:46	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 16:53	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 15:37	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 16:46	5
Calcium	240000		5000	530	ug/L		04/11/13 13:35	04/17/13 16:53	5
Calcium	240000		5000	530	ug/L		04/11/13 13:35	04/18/13 15:37	5
Calcium	230000		5000	530	ug/L		04/11/13 13:35	04/19/13 16:46	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 16:53	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 15:37	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 16:46	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 16:53	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:37	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:46	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 16:53	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 15:37	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 16:46	5
Iron	96000		500	140	ug/L		04/11/13 13:35	04/17/13 16:53	5
Iron	97000		500	140	ug/L		04/11/13 13:35	04/18/13 15:37	5
Iron	91000		500	140	ug/L		04/11/13 13:35	04/19/13 16:46	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 16:53	5
Lead	12 J		50	7.5	ug/L		04/11/13 13:35	04/18/13 15:37	5
Lead	12 J		50	7.5	ug/L		04/11/13 13:35	04/19/13 16:46	5
Magnesium	75000		5000	660	ug/L		04/11/13 13:35	04/17/13 16:53	5
Magnesium	75000		5000	660	ug/L		04/11/13 13:35	04/18/13 15:37	5
Magnesium	72000		5000	660	ug/L		04/11/13 13:35	04/19/13 16:46	5
Manganese	3500		75	17	ug/L		04/11/13 13:35	04/17/13 16:53	5
Manganese	3400		75	17	ug/L		04/11/13 13:35	04/18/13 15:37	5
Manganese	3300		75	17	ug/L		04/11/13 13:35	04/19/13 16:46	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 16:53	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-114-AS**Lab Sample ID: 160-2044-2**

Matrix: Water

Date Collected: 04/08/13 11:45
 Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 15:37	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 16:46	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 16:53	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 15:37	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 16:46	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 16:53	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 15:37	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 16:46	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 16:53	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 15:37	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 16:46	5
Sodium	110000		5000	1600	ug/L		04/11/13 13:35	04/17/13 16:53	5
Sodium	110000		5000	1600	ug/L		04/11/13 13:35	04/18/13 15:37	5
Sodium	110000		5000	1600	ug/L		04/11/13 13:35	04/19/13 16:46	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 16:53	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 15:37	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 16:46	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 16:53	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:37	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:46	5
Zinc	29 J		100	26	ug/L		04/11/13 13:35	04/17/13 16:53	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/18/13 15:37	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/19/13 16:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.038 H		0.020	0.0040	mg/L			04/10/13 19:03	1
Bromide	0.54		0.25	0.025	mg/L			04/10/13 19:03	1
Sulfate	0.84		0.50	0.050	mg/L			04/10/13 19:03	1
Iodide	0.17 J		1.0	0.10	mg/L			04/15/13 19:50	1
Alkalinity	740		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280		40	4.0	mg/L			04/11/13 06:52	200

Client Sample ID: FB@PZ-201A-SS**Lab Sample ID: 160-2044-3**

Matrix: Water

Date Collected: 04/08/13 12:45
 Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 12:00	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: FB@PZ-201A-SS**Lab Sample ID: 160-2044-3**

Date Collected: 04/08/13 12:45

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 12:00	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 12:00	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 12:00	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 12:00	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 12:00	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 12:00	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 12:00	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 12:00	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 12:00	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 12:00	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 12:00	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 12:00	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 12:00	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 12:00	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 12:00	1
Acetone	ND		20	6.7	ug/L			04/11/13 12:00	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 12:00	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 12:00	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 12:00	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 12:00	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 12:00	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 12:00	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 12:00	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 12:00	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 12:00	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 12:00	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 12:00	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 12:00	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 12:00	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 12:00	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 12:00	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 12:00	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 12:00	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 12:00	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 12:00	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 12:00	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 12:00	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 12:00	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 12:00	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 12:00	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 12:00	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 12:00	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 12:00	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 12:00	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 12:00	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 12:00	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 12:00	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 12:00	1

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TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: FB@PZ-201A-SS

Date Collected: 04/08/13 12:45

Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		82 - 121		04/11/13 12:00	1
Dibromofluoromethane (Surr)	103		85 - 119		04/11/13 12:00	1
1,2-Dichloroethane-d4 (Surr)	100		82 - 132		04/11/13 12:00	1
Toluene-d8 (Surr)	91		85 - 115		04/11/13 12:00	1

Client Sample ID: PZ-201A-SS

Date Collected: 04/08/13 13:22

Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 12:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 12:24	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 12:24	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 12:24	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 12:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 12:24	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 12:24	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 12:24	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 12:24	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 12:24	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 12:24	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 12:24	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 12:24	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 12:24	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 12:24	1
Acetone	ND		20	6.7	ug/L			04/11/13 12:24	1
Benzene	0.92 J		5.0	0.25	ug/L			04/11/13 12:24	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 12:24	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 12:24	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 12:24	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 12:24	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 12:24	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 12:24	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 12:24	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 12:24	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 12:24	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 12:24	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 12:24	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 12:24	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 12:24	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 12:24	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 12:24	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 12:24	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 12:24	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 12:24	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 12:24	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 12:24	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 12:24	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 12:24	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-201A-SS**Lab Sample ID: 160-2044-4**

Date Collected: 04/08/13 13:22

Matrix: Water

Date Received: 04/10/13 08:33

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 12:24	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 12:24	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 12:24	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 12:24	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 12:24	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 12:24	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 12:24	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 12:24	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 12:24	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 12:24	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		94		82 - 132				04/11/13 12:24	1
4-Bromofluorobenzene (Surr)		83		82 - 121				04/11/13 12:24	1
Dibromofluoromethane (Surr)		99		85 - 119				04/11/13 12:24	1
Toluene-d8 (Surr)		88		85 - 115				04/11/13 12:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L			04/11/13 13:32	5
Antimony	ND		50	20	ug/L			04/11/13 13:32	5
Arsenic	11 J		50	9.9	ug/L			04/11/13 13:32	5
Barium	130 J		250	20	ug/L			04/11/13 13:32	5
Beryllium	ND		25	3.1	ug/L			04/11/13 13:32	5
Cadmium	ND		25	4.6	ug/L			04/11/13 13:32	5
Calcium	110000		5000	530	ug/L			04/11/13 13:32	5
Chromium	ND		50	16	ug/L			04/11/13 13:32	5
Cobalt	ND		250	20	ug/L			04/11/13 13:32	5
Copper	ND		130	23	ug/L			04/11/13 13:32	5
Iron	520		500	140	ug/L			04/11/13 13:32	5
Lead	ND		50	7.5	ug/L			04/11/13 13:32	5
Magnesium	51000		5000	660	ug/L			04/11/13 13:32	5
Manganese	87		75	17	ug/L			04/11/13 13:32	5
Nickel	ND		200	67	ug/L			04/11/13 13:32	5
Potassium	ND		25000	8300	ug/L			04/11/13 13:32	5
Selenium	ND		75	13	ug/L			04/11/13 13:32	5
Silver	ND		50	30	ug/L			04/11/13 13:32	5
Sodium	18000		5000	1600	ug/L			04/11/13 13:32	5
Thallium	ND		100	20	ug/L			04/11/13 13:32	5
Vanadium	ND		250	20	ug/L			04/11/13 13:32	5
Zinc	50 J B		100	26	ug/L			04/11/13 13:32	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L			04/11/13 13:35	5
Aluminum	ND		1000	400	ug/L			04/11/13 13:35	5
Aluminum	ND		1000	400	ug/L			04/11/13 13:35	5
Antimony	ND		50	20	ug/L			04/11/13 13:35	5
Antimony	ND		50	20	ug/L			04/11/13 13:35	5
Antimony	ND		50	20	ug/L			04/11/13 13:35	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-201A-SS**Lab Sample ID: 160-2044-4**

Date Collected: 04/08/13 13:22

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 16:56	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 15:40	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 16:50	5
Barium	140 J		250	20	ug/L		04/11/13 13:35	04/17/13 16:56	5
Barium	130 J		250	20	ug/L		04/11/13 13:35	04/18/13 15:40	5
Barium	130 J		250	20	ug/L		04/11/13 13:35	04/19/13 16:50	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 16:56	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 15:40	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 16:50	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 16:56	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 15:40	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 16:50	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/17/13 16:56	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/18/13 15:40	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/19/13 16:50	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 16:56	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 15:40	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 16:50	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 16:56	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:40	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:50	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 16:56	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 15:40	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 16:50	5
Iron	ND		500	140	ug/L		04/11/13 13:35	04/17/13 16:56	5
Iron	ND		500	140	ug/L		04/11/13 13:35	04/18/13 15:40	5
Iron	ND		500	140	ug/L		04/11/13 13:35	04/19/13 16:50	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 16:56	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 15:40	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 16:50	5
Magnesium	50000		5000	660	ug/L		04/11/13 13:35	04/17/13 16:56	5
Magnesium	50000		5000	660	ug/L		04/11/13 13:35	04/18/13 15:40	5
Magnesium	49000		5000	660	ug/L		04/11/13 13:35	04/19/13 16:50	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/17/13 16:56	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/18/13 15:40	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/19/13 16:50	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 16:56	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 15:40	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 16:50	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 16:56	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 15:40	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 16:50	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 16:56	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 15:40	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 16:50	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 16:56	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 15:40	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 16:50	5
Sodium	13000		5000	1600	ug/L		04/11/13 13:35	04/17/13 16:56	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-201A-SS
Lab Sample ID: 160-2044-4

Matrix: Water

Date Collected: 04/08/13 13:22
Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	13000		5000	1600	ug/L		04/11/13 13:35	04/18/13 15:40	5
Sodium	13000		5000	1600	ug/L		04/11/13 13:35	04/19/13 16:50	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 16:56	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 15:40	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 16:50	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 16:56	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:40	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:50	5
Zinc	56 J		100	26	ug/L		04/11/13 13:35	04/17/13 16:56	5
Zinc	61 J		100	26	ug/L		04/11/13 13:35	04/18/13 15:40	5
Zinc	57 J		100	26	ug/L		04/11/13 13:35	04/19/13 16:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.32 H		0.020	0.0040	mg/L			04/10/13 20:05	1
Chloride	4.0		0.20	0.020	mg/L			04/10/13 20:05	1
Bromide	ND		0.25	0.025	mg/L			04/10/13 20:05	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 20:05	1
Alkalinity	470		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	67		10	1.0	mg/L			04/10/13 20:20	20

Client Sample ID: PZ-204A-SS
Lab Sample ID: 160-2044-5

Matrix: Water

Date Collected: 04/08/13 13:26
Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 10:46	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 10:46	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 10:46	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 10:46	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 10:46	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 10:46	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 10:46	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 10:46	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 10:46	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 10:46	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 10:46	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 10:46	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 10:46	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-204A-SS**Lab Sample ID: 160-2044-5**

Date Collected: 04/08/13 13:26

Matrix: Water

Date Received: 04/10/13 08:33

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		20	0.59	ug/L			04/11/13 10:46	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 10:46	1
Acetone	ND		20	6.7	ug/L			04/11/13 10:46	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 10:46	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 10:46	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 10:46	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 10:46	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 10:46	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 10:46	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 10:46	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 10:46	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 10:46	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 10:46	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 10:46	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 10:46	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 10:46	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 10:46	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 10:46	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 10:46	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 10:46	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 10:46	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 10:46	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 10:46	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 10:46	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 10:46	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 10:46	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 10:46	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 10:46	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 10:46	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 10:46	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 10:46	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 10:46	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 10:46	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 10:46	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 10:46	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 10:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	100		82 - 132				04/11/13 10:46	1	
4-Bromofluorobenzene (Surr)	85		82 - 121				04/11/13 10:46	1	
Dibromofluoromethane (Surr)	101		85 - 119				04/11/13 10:46	1	
Toluene-d8 (Surr)	91		85 - 115				04/11/13 10:46	1	

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4500		1000	400	ug/L		04/11/13 13:32	04/15/13 17:14	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:14	5
Arsenic	23	J	50	9.9	ug/L		04/11/13 13:32	04/15/13 17:14	5
Barium	510		250	20	ug/L		04/11/13 13:32	04/15/13 17:14	5
Beryllium	4.5	J	25	3.1	ug/L		04/11/13 13:32	04/15/13 17:14	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-204A-SS

Lab Sample ID: 160-2044-5

Matrix: Water

Date Collected: 04/08/13 13:26
Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	5.0	J	25	4.6	ug/L		04/11/13 13:32	04/15/13 17:14	5
Calcium	240000		5000	530	ug/L		04/11/13 13:32	04/15/13 17:14	5
Chromium	16	J	50	16	ug/L		04/11/13 13:32	04/15/13 17:14	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:14	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:14	5
Iron	10000		500	140	ug/L		04/11/13 13:32	04/15/13 17:14	5
Lead	18	J	50	7.5	ug/L		04/11/13 13:32	04/15/13 17:14	5
Magnesium	60000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:14	5
Manganese	2500		75	17	ug/L		04/11/13 13:32	04/15/13 17:14	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:14	5
Potassium	16000	J	25000	8300	ug/L		04/11/13 13:32	04/15/13 17:14	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:14	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:14	5
Sodium	210000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:14	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:14	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:14	5
Zinc	67	J B	100	26	ug/L		04/11/13 13:32	04/15/13 17:14	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:00	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 15:44	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 16:53	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:00	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 15:44	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 16:53	5
Arsenic	12	J	50	9.9	ug/L		04/11/13 13:35	04/17/13 17:00	5
Arsenic	13	J	50	9.9	ug/L		04/11/13 13:35	04/18/13 15:44	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 16:53	5
Barium	400		250	20	ug/L		04/11/13 13:35	04/17/13 17:00	5
Barium	390		250	20	ug/L		04/11/13 13:35	04/18/13 15:44	5
Barium	390		250	20	ug/L		04/11/13 13:35	04/19/13 16:53	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:00	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 15:44	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 16:53	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:00	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 15:44	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 16:53	5
Calcium	220000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:00	5
Calcium	220000		5000	530	ug/L		04/11/13 13:35	04/18/13 15:44	5
Calcium	220000		5000	530	ug/L		04/11/13 13:35	04/19/13 16:53	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:00	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 15:44	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 16:53	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:00	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:44	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:53	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:00	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 15:44	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 16:53	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-204A-SS**Lab Sample ID: 160-2044-5**

Date Collected: 04/08/13 13:26

Matrix: Water

Date Received: 04/10/13 08:33

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Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4000		500	140	ug/L		04/11/13 13:35	04/17/13 17:00	5
Iron	4000		500	140	ug/L		04/11/13 13:35	04/18/13 15:44	5
Iron	4000		500	140	ug/L		04/11/13 13:35	04/19/13 16:53	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:00	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 15:44	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 16:53	5
Magnesium	52000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:00	5
Magnesium	51000		5000	660	ug/L		04/11/13 13:35	04/18/13 15:44	5
Magnesium	51000		5000	660	ug/L		04/11/13 13:35	04/19/13 16:53	5
Manganese	2100		75	17	ug/L		04/11/13 13:35	04/17/13 17:00	5
Manganese	2000		75	17	ug/L		04/11/13 13:35	04/18/13 15:44	5
Manganese	2000		75	17	ug/L		04/11/13 13:35	04/19/13 16:53	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:00	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 15:44	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 16:53	5
Potassium	15000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:00	5
Potassium	15000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 15:44	5
Potassium	15000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 16:53	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:00	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 15:44	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 16:53	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:00	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 15:44	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 16:53	5
Sodium	210000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:00	5
Sodium	200000		5000	1600	ug/L		04/11/13 13:35	04/18/13 15:44	5
Sodium	200000		5000	1600	ug/L		04/11/13 13:35	04/19/13 16:53	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:00	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 15:44	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 16:53	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:00	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:44	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 16:53	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:00	5
Zinc	44 J		100	26	ug/L		04/11/13 13:35	04/18/13 15:44	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/19/13 16:53	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:40	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060 J		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	0.020	0.0040	mg/L			04/10/13 20:36	1
Bromide	0.12 J		0.25	0.025	mg/L			04/10/13 20:36	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 20:19	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-204A-SS**Lab Sample ID: 160-2044-5**

Date Collected: 04/08/13 13:26

Matrix: Water

Date Received: 04/10/13 08:33

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	370		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	230		10	1.0	mg/L			04/10/13 20:51	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		40	4.0	mg/L			04/11/13 07:08	200

Client Sample ID: PZ-205-AS**Lab Sample ID: 160-2044-6**

Date Collected: 04/08/13 13:36

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 12:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 12:49	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 12:49	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 12:49	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 12:49	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 12:49	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 12:49	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 12:49	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 12:49	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 12:49	1
1,2-Dichloropropene	ND		5.0	0.32	ug/L			04/11/13 12:49	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 12:49	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 12:49	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 12:49	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 12:49	1
Acetone	ND		20	6.7	ug/L			04/11/13 12:49	1
Benzene	200		5.0	0.25	ug/L			04/11/13 12:49	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 12:49	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 12:49	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 12:49	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 12:49	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 12:49	1
Chlorobenzene	65		5.0	0.38	ug/L			04/11/13 12:49	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 12:49	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 12:49	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 12:49	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 12:49	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 12:49	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 12:49	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 12:49	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 12:49	1
Ethylbenzene	29 *		5.0	0.30	ug/L			04/11/13 12:49	1
Isopropylbenzene	6.2		5.0	0.26	ug/L			04/11/13 12:49	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-205-AS

Date Collected: 04/08/13 13:36
Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 12:49		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 12:49		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/11/13 12:49		1
m-Xylene & p-Xylene	40		5.0	0.57	ug/L		04/11/13 12:49		1
o-Xylene	8.8		5.0	0.32	ug/L		04/11/13 12:49		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 12:49		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 12:49		1
Toluene	32		5.0	1.0	ug/L		04/11/13 12:49		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 12:49		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 12:49		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 12:49		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 12:49		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 12:49		1
Xylenes, Total	49		10	0.85	ug/L		04/11/13 12:49		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		82 - 121				04/11/13 12:49		1
1,2-Dichloroethane-d4 (Surr)	95		82 - 132				04/11/13 12:49		1
Toluene-d8 (Surr)	93		85 - 115				04/11/13 12:49		1
Dibromofluoromethane (Surr)	99		85 - 119				04/11/13 12:49		1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2100		1000	400	ug/L		04/11/13 13:32	04/15/13 17:28	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:28	5
Arsenic	32 J		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:28	5
Barium	1300		250	20	ug/L		04/11/13 13:32	04/15/13 17:28	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:28	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:28	5
Calcium	290000 E		5000	530	ug/L		04/11/13 13:32	04/15/13 17:28	5
Calcium	310000		10000	1100	ug/L		04/11/13 13:32	04/16/13 15:39	10
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 17:28	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:28	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:28	5
Iron	36000		500	140	ug/L		04/11/13 13:32	04/15/13 17:28	5
Lead	11 J		50	7.5	ug/L		04/11/13 13:32	04/15/13 17:28	5
Magnesium	83000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:28	5
Manganese	650		75	17	ug/L		04/11/13 13:32	04/15/13 17:28	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:28	5
Potassium	8900 J		25000	8300	ug/L		04/11/13 13:32	04/15/13 17:28	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:28	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:28	5
Sodium	97000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:28	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:28	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:28	5
Zinc	37 J B		100	26	ug/L		04/11/13 13:32	04/15/13 17:28	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:15	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-205-AS

Date Collected: 04/08/13 13:36

Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-6

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/17/13 18:24	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 15:59	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/18/13 17:08	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:08	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:15	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/17/13 18:24	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 15:59	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/18/13 17:08	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:08	5
Arsenic	25 J		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:15	5
Arsenic	21 J		100	20	ug/L		04/11/13 13:35	04/17/13 18:24	10
Arsenic	25 J		50	9.9	ug/L		04/11/13 13:35	04/18/13 15:59	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:08	10
Arsenic	15 J		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:08	5
Barium	1300		250	20	ug/L		04/11/13 13:35	04/17/13 17:15	5
Barium	1300		500	40	ug/L		04/11/13 13:35	04/17/13 18:24	10
Barium	1200		250	20	ug/L		04/11/13 13:35	04/18/13 15:59	5
Barium	1200		500	40	ug/L		04/11/13 13:35	04/18/13 17:08	10
Barium	1200		250	20	ug/L		04/11/13 13:35	04/19/13 17:08	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:15	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/17/13 18:24	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 15:59	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/18/13 17:08	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:08	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:15	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/17/13 18:24	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 15:59	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/18/13 17:08	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:08	5
Calcium	310000 E		5000	530	ug/L		04/11/13 13:35	04/17/13 17:15	5
Calcium	320000		10000	1100	ug/L		04/11/13 13:35	04/17/13 18:24	10
Calcium	310000 E		5000	530	ug/L		04/11/13 13:35	04/18/13 15:59	5
Calcium	320000		10000	1100	ug/L		04/11/13 13:35	04/18/13 17:08	10
Calcium	300000 E		5000	530	ug/L		04/11/13 13:35	04/19/13 17:08	5
Calcium	310000		10000	1100	ug/L		04/11/13 13:35	04/19/13 18:18	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:15	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/17/13 18:24	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 15:59	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/18/13 17:08	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:08	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:15	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/17/13 18:24	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:59	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/18/13 17:08	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:08	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:15	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/17/13 18:24	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 15:59	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/18/13 17:08	10

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-205-AS**Lab Sample ID: 160-2044-6**

Date Collected: 04/08/13 13:36

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:08	5
Iron	33000		500	140	ug/L		04/11/13 13:35	04/17/13 17:15	5
Iron	33000		1000	280	ug/L		04/11/13 13:35	04/17/13 18:24	10
Iron	33000		500	140	ug/L		04/11/13 13:35	04/18/13 15:59	5
Iron	33000		1000	280	ug/L		04/11/13 13:35	04/18/13 17:08	10
Iron	32000		500	140	ug/L		04/11/13 13:35	04/19/13 17:08	5
Lead	11 J		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:15	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/17/13 18:24	10
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 15:59	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/18/13 17:08	10
Lead	11 J		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:08	5
Magnesium	83000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:15	5
Magnesium	85000		10000	1300	ug/L		04/11/13 13:35	04/17/13 18:24	10
Magnesium	82000		5000	660	ug/L		04/11/13 13:35	04/18/13 15:59	5
Magnesium	82000		10000	1300	ug/L		04/11/13 13:35	04/18/13 17:08	10
Magnesium	80000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:08	5
Manganese	630		75	17	ug/L		04/11/13 13:35	04/17/13 17:15	5
Manganese	640		150	33	ug/L		04/11/13 13:35	04/17/13 18:24	10
Manganese	610		75	17	ug/L		04/11/13 13:35	04/18/13 15:59	5
Manganese	600		150	33	ug/L		04/11/13 13:35	04/18/13 17:08	10
Manganese	590		75	17	ug/L		04/11/13 13:35	04/19/13 17:08	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:15	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/17/13 18:24	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 15:59	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/18/13 17:08	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:08	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:15	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/17/13 18:24	10
Potassium	8300 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 15:59	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/18/13 17:08	10
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:08	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:15	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/17/13 18:24	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 15:59	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/18/13 17:08	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:08	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:15	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/17/13 18:24	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 15:59	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/18/13 17:08	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:08	5
Sodium	91000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:15	5
Sodium	91000		10000	3200	ug/L		04/11/13 13:35	04/17/13 18:24	10
Sodium	90000		5000	1600	ug/L		04/11/13 13:35	04/18/13 15:59	5
Sodium	88000		10000	3200	ug/L		04/11/13 13:35	04/18/13 17:08	10
Sodium	88000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:08	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:15	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/17/13 18:24	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 15:59	5

TestAmerica St. Louis

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Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-205-AS**Lab Sample ID: 160-2044-6**

Matrix: Water

Date Collected: 04/08/13 13:36

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/18/13 17:08	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:08	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:15	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/17/13 18:24	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 15:59	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/18/13 17:08	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:08	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:15	5
Zinc	53 J		200	52	ug/L		04/11/13 13:35	04/17/13 18:24	10
Zinc	30 J		100	26	ug/L		04/11/13 13:35	04/18/13 15:59	5
Zinc	53 J		200	52	ug/L		04/11/13 13:35	04/18/13 17:08	10
Zinc	34 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:42	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062	J	0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.14	H	0.020	0.0040	mg/L			04/10/13 21:06	1
Bromide	3.7		0.25	0.025	mg/L			04/10/13 21:06	1
Sulfate	0.34	J	0.50	0.050	mg/L			04/10/13 21:06	1
Iodide	0.67	J	1.0	0.10	mg/L			04/15/13 20:34	1
Alkalinity	800		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		40	4.0	mg/L			04/11/13 07:23	200

Client Sample ID: PZ-205-SS**Lab Sample ID: 160-2044-7**

Matrix: Water

Date Collected: 04/08/13 14:50

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 23:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 23:52	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 23:52	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 23:52	1
1,1-Dichloroethene	ND *		5.0	0.37	ug/L			04/11/13 23:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 23:52	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 23:52	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 23:52	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 23:52	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 23:52	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 23:52	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 23:52	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-205-SS**Lab Sample ID: 160-2044-7**

Date Collected: 04/08/13 14:50

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		20	0.39	ug/L		04/11/13 23:52		1
2-Hexanone	ND		20	0.59	ug/L		04/11/13 23:52		1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L		04/11/13 23:52		1
Acetone	ND		20	6.7	ug/L		04/11/13 23:52		1
Benzene	ND		5.0	0.25	ug/L		04/11/13 23:52		1
Bromodichloromethane	ND		5.0	0.25	ug/L		04/11/13 23:52		1
Bromoform	ND		5.0	0.37	ug/L		04/11/13 23:52		1
Bromomethane	ND *		10	0.40	ug/L		04/11/13 23:52		1
Carbon disulfide	ND		5.0	0.37	ug/L		04/11/13 23:52		1
Carbon tetrachloride	ND		5.0	0.36	ug/L		04/11/13 23:52		1
Chlorobenzene	ND		5.0	0.38	ug/L		04/11/13 23:52		1
Chloroethane	ND		10	0.38	ug/L		04/11/13 23:52		1
Chloroform	ND		5.0	0.15	ug/L		04/11/13 23:52		1
Chloromethane	ND		10	0.55	ug/L		04/11/13 23:52		1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L		04/11/13 23:52		1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L		04/11/13 23:52		1
Cyclohexane	ND		10	0.36	ug/L		04/11/13 23:52		1
Dibromochloromethane	ND		5.0	0.33	ug/L		04/11/13 23:52		1
Dichlorodifluoromethane	ND		10	0.45	ug/L		04/11/13 23:52		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/11/13 23:52		1
Ethylbenzene	ND		5.0	0.30	ug/L		04/11/13 23:52		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 23:52		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 23:52		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 23:52		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 23:52		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 23:52		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 23:52		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 23:52		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 23:52		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 23:52		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 23:52		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 23:52		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 23:52		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 23:52		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 23:52		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 23:52		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 23:52		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		82 - 132		04/11/13 23:52	1
4-Bromofluorobenzene (Surr)	99		82 - 121		04/11/13 23:52	1
Dibromofluoromethane (Surr)	106		85 - 119		04/11/13 23:52	1
Toluene-d8 (Surr)	101		85 - 115		04/11/13 23:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:32	04/15/13 17:32	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:32	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:32	5
Barium	140	J	250	20	ug/L		04/11/13 13:32	04/15/13 17:32	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-205-SS**Lab Sample ID: 160-2044-7**

Date Collected: 04/08/13 14:50

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:32	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:32	5
Calcium	110000		5000	530	ug/L		04/11/13 13:32	04/15/13 17:32	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 17:32	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:32	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:32	5
Iron	300 J		500	140	ug/L		04/11/13 13:32	04/15/13 17:32	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 17:32	5
Magnesium	60000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:32	5
Manganese	ND		75	17	ug/L		04/11/13 13:32	04/15/13 17:32	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:32	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 17:32	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:32	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:32	5
Sodium	13000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:32	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:32	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:32	5
Zinc	37 J B		100	26	ug/L		04/11/13 13:32	04/15/13 17:32	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:25	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:09	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:19	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:25	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:09	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:19	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:25	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:09	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:19	5
Barium	150 J		250	20	ug/L		04/11/13 13:35	04/17/13 17:25	5
Barium	150 J		250	20	ug/L		04/11/13 13:35	04/18/13 16:09	5
Barium	140 J		250	20	ug/L		04/11/13 13:35	04/19/13 17:19	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:25	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:09	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:19	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:25	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:09	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:19	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:25	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:09	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:19	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:25	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:09	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:19	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:25	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:09	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:19	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:25	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:09	5

TestAmerica St. Louis

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Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-205-SS**Lab Sample ID: 160-2044-7**

Matrix: Water

Date Collected: 04/08/13 14:50

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:19	5
Iron	ND		500	140	ug/L		04/11/13 13:35	04/17/13 17:25	5
Iron	150 J		500	140	ug/L		04/11/13 13:35	04/18/13 16:09	5
Iron	ND		500	140	ug/L		04/11/13 13:35	04/19/13 17:19	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:25	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:09	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:19	5
Magnesium	61000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:25	5
Magnesium	61000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:09	5
Magnesium	59000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:19	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/17/13 17:25	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/18/13 16:09	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/19/13 17:19	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:25	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:09	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:19	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:25	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:09	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:19	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:25	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:09	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:19	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:25	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:09	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:19	5
Sodium	14000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:25	5
Sodium	14000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:09	5
Sodium	13000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:19	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:25	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:09	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:19	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:25	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:09	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:19	5
Zinc	34 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:25	5
Zinc	35 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:09	5
Zinc	67 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064	J	0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.011	J H	0.020	0.0040	mg/L			04/10/13 21:37	1
Bromide	0.22	J	0.25	0.025	mg/L			04/10/13 21:37	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-205-SS

Lab Sample ID: 160-2044-7

Date Collected: 04/08/13 14:50
Date Received: 04/10/13 08:33

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			04/15/13 20:48	1
Alkalinity	420		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		4.0	0.40	mg/L			04/10/13 21:53	20
Sulfate	53		10	1.0	mg/L			04/10/13 21:53	20

Client Sample ID: PZ-206-SS

Lab Sample ID: 160-2044-8

Date Collected: 04/08/13 15:00
Date Received: 04/10/13 08:33

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 13:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 13:38	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 13:38	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 13:38	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 13:38	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 13:38	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 13:38	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 13:38	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 13:38	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 13:38	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 13:38	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 13:38	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 13:38	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 13:38	1
Acetone	ND		20	6.7	ug/L			04/11/13 13:38	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 13:38	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 13:38	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 13:38	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 13:38	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 13:38	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 13:38	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 13:38	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 13:38	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 13:38	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 13:38	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 13:38	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 13:38	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 13:38	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 13:38	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 13:38	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 13:38	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 13:38	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 13:38	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 13:38	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 13:38	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-206-SS

Date Collected: 04/08/13 15:00
Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 13:38	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 13:38	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 13:38	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 13:38	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 13:38	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 13:38	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 13:38	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 13:38	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 13:38	1
Trichloroethylene	ND		5.0	0.29	ug/L			04/11/13 13:38	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 13:38	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 13:38	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		82 - 132		04/11/13 13:38	1
4-Bromofluorobenzene (Surr)	84		82 - 121		04/11/13 13:38	1
Dibromofluoromethane (Surr)	99		85 - 119		04/11/13 13:38	1
Toluene-d8 (Surr)	88		85 - 115		04/11/13 13:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1400		1000	400	ug/L		04/11/13 13:32	04/15/13 17:36	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:36	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:36	5
Barium	82 J		250	20	ug/L		04/11/13 13:32	04/15/13 17:36	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:36	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:36	5
Calcium	120000		5000	530	ug/L		04/11/13 13:32	04/15/13 17:36	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 17:36	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:36	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:36	5
Iron	2400		500	140	ug/L		04/11/13 13:32	04/15/13 17:36	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 17:36	5
Magnesium	73000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:36	5
Manganese	60 J		75	17	ug/L		04/11/13 13:32	04/15/13 17:36	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:36	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 17:36	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:36	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:36	5
Sodium	15000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:36	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:36	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:36	5
Zinc	42 J B		100	26	ug/L		04/11/13 13:32	04/15/13 17:36	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:29	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:13	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:22	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-206-SS

Lab Sample ID: 160-2044-8

Date Collected: 04/08/13 15:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:29	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:13	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:22	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:29	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:13	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:22	5
Barium	66 J		250	20	ug/L		04/11/13 13:35	04/17/13 17:29	5
Barium	62 J		250	20	ug/L		04/11/13 13:35	04/18/13 16:13	5
Barium	60 J		250	20	ug/L		04/11/13 13:35	04/19/13 17:22	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:29	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:13	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:22	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:29	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:13	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:22	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:29	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:13	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:22	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:29	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:13	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:22	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:29	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:13	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:22	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:29	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:13	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:22	5
Iron	210 J		500	140	ug/L		04/11/13 13:35	04/17/13 17:29	5
Iron	220 J		500	140	ug/L		04/11/13 13:35	04/18/13 16:13	5
Iron	180 J		500	140	ug/L		04/11/13 13:35	04/19/13 17:22	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:29	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:13	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:22	5
Magnesium	71000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:29	5
Magnesium	71000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:13	5
Magnesium	68000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:22	5
Manganese	37 J		75	17	ug/L		04/11/13 13:35	04/17/13 17:29	5
Manganese	34 J		75	17	ug/L		04/11/13 13:35	04/18/13 16:13	5
Manganese	33 J		75	17	ug/L		04/11/13 13:35	04/19/13 17:22	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:29	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:13	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:22	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:29	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:13	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:22	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:29	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:13	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:22	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:29	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-206-SS**Lab Sample ID: 160-2044-8**

Matrix: Water

Date Collected: 04/08/13 15:00

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:13	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:22	5
Sodium	17000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:29	5
Sodium	17000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:13	5
Sodium	16000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:22	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:29	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:13	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:22	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:29	5
Vanadium	21 J		250	20	ug/L		04/11/13 13:35	04/18/13 16:13	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:22	5
Zinc	30 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:29	5
Zinc	27 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:13	5
Zinc	50 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:46	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	0.020	0.0040	mg/L			04/10/13 22:08	1
Bromide	0.26		0.25	0.025	mg/L			04/10/13 22:08	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 21:31	1
Alkalinity	470		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		4.0	0.40	mg/L			04/10/13 22:23	20
Sulfate	77		10	1.0	mg/L			04/10/13 22:23	20

Client Sample ID: PZ-204-SS**Lab Sample ID: 160-2044-9**

Matrix: Water

Date Collected: 04/09/13 09:30

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 14:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 14:03	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 14:03	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 14:03	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 14:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 14:03	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 14:03	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 14:03	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 14:03	1
1,2-Dichloropropene	ND		5.0	0.32	ug/L			04/11/13 14:03	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-204-SS**Lab Sample ID: 160-2044-9**

Matrix: Water

Date Collected: 04/09/13 09:30

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 14:03	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 14:03	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 14:03	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 14:03	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 14:03	1
Acetone	ND		20	6.7	ug/L			04/11/13 14:03	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 14:03	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 14:03	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 14:03	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 14:03	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 14:03	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 14:03	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 14:03	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 14:03	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 14:03	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 14:03	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 14:03	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 14:03	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 14:03	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 14:03	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 14:03	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 14:03	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 14:03	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 14:03	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 14:03	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 14:03	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 14:03	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 14:03	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 14:03	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 14:03	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 14:03	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 14:03	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 14:03	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 14:03	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 14:03	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 14:03	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 14:03	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 14:03	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		82 - 132			1
4-Bromofluorobenzene (Surr)	85		82 - 121			1
Dibromofluoromethane (Surr)	101		85 - 119			1
Toluene-d8 (Surr)	89		85 - 115			1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2000		1000	400	ug/L		04/11/13 13:32	04/15/13 17:39	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:39	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-204-SS**Lab Sample ID: 160-2044-9**

Matrix: Water

Date Collected: 04/09/13 09:30

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:39	5
Barium	200	J	250	20	ug/L		04/11/13 13:32	04/15/13 17:39	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:39	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:39	5
Calcium	80000		5000	530	ug/L		04/11/13 13:32	04/15/13 17:39	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 17:39	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:39	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:39	5
Iron	4700		500	140	ug/L		04/11/13 13:32	04/15/13 17:39	5
Lead	11	J	50	7.5	ug/L		04/11/13 13:32	04/15/13 17:39	5
Magnesium	54000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:39	5
Manganese	120		75	17	ug/L		04/11/13 13:32	04/15/13 17:39	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:39	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 17:39	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:39	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:39	5
Sodium	32000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:39	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:39	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:39	5
Zinc	79	J B	100	26	ug/L		04/11/13 13:32	04/15/13 17:39	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:33	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:17	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:26	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:33	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:17	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:26	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:33	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:17	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:26	5
Barium	170	J	250	20	ug/L		04/11/13 13:35	04/17/13 17:33	5
Barium	170	J	250	20	ug/L		04/11/13 13:35	04/18/13 16:17	5
Barium	160	J	250	20	ug/L		04/11/13 13:35	04/19/13 17:26	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:33	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:17	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:26	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:33	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:17	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:26	5
Calcium	78000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:33	5
Calcium	78000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:17	5
Calcium	73000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:26	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:33	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:17	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:26	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:33	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:17	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:26	5

TestAmerica St. Louis

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Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-204-SS**Lab Sample ID: 160-2044-9**

Date Collected: 04/09/13 09:30

Matrix: Water

Date Received: 04/10/13 08:33

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Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:33	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:17	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:26	5
Iron	740		500	140	ug/L		04/11/13 13:35	04/17/13 17:33	5
Iron	740		500	140	ug/L		04/11/13 13:35	04/18/13 16:17	5
Iron	720		500	140	ug/L		04/11/13 13:35	04/19/13 17:26	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:33	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:17	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:26	5
Magnesium	52000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:33	5
Magnesium	51000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:17	5
Magnesium	50000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:26	5
Manganese	110		75	17	ug/L		04/11/13 13:35	04/17/13 17:33	5
Manganese	110		75	17	ug/L		04/11/13 13:35	04/18/13 16:17	5
Manganese	100		75	17	ug/L		04/11/13 13:35	04/19/13 17:26	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:33	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:17	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:26	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:33	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:17	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:26	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:33	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:17	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:26	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:33	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:17	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:26	5
Sodium	31000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:33	5
Sodium	30000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:17	5
Sodium	29000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:26	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:33	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:17	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:26	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:33	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:17	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:26	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:33	5
Zinc	27 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:17	5
Zinc	31 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:51	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:53	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-204-SS**Lab Sample ID: 160-2044-9**

Date Collected: 04/09/13 09:30

Matrix: Water

Date Received: 04/10/13 08:33

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0067	J	0.020	0.0040	mg/L			04/10/13 23:41	1
Chloride	2.9		0.20	0.020	mg/L			04/10/13 23:41	1
Bromide	ND		0.25	0.025	mg/L			04/10/13 23:41	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 21:46	1
Alkalinity	440		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	22		10	1.0	mg/L			04/10/13 23:56	20

Client Sample ID: I-68**Lab Sample ID: 160-2044-10**

Date Collected: 04/09/13 10:44

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/12/13 00:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/12/13 00:17	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/12/13 00:17	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/12/13 00:17	1
1,1-Dichloroethene	ND *		5.0	0.37	ug/L			04/12/13 00:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/12/13 00:17	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/12/13 00:17	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/12/13 00:17	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/12/13 00:17	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/12/13 00:17	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/12/13 00:17	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/12/13 00:17	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/12/13 00:17	1
2-Hexanone	ND		20	0.59	ug/L			04/12/13 00:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/12/13 00:17	1
Acetone	ND		20	6.7	ug/L			04/12/13 00:17	1
Benzene	ND		5.0	0.25	ug/L			04/12/13 00:17	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/12/13 00:17	1
Bromoform	ND		5.0	0.37	ug/L			04/12/13 00:17	1
Bromomethane	ND *		10	0.40	ug/L			04/12/13 00:17	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/12/13 00:17	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/12/13 00:17	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/12/13 00:17	1
Chloroethane	ND		10	0.38	ug/L			04/12/13 00:17	1
Chloroform	ND		5.0	0.15	ug/L			04/12/13 00:17	1
Chloromethane	ND		10	0.55	ug/L			04/12/13 00:17	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/12/13 00:17	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/12/13 00:17	1
Cyclohexane	ND		10	0.36	ug/L			04/12/13 00:17	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/12/13 00:17	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/12/13 00:17	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/12/13 00:17	1
Ethylbenzene	ND		5.0	0.30	ug/L			04/12/13 00:17	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/12/13 00:17	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-68**Lab Sample ID: 160-2044-10**

Date Collected: 04/09/13 10:44

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.26	ug/L			04/12/13 00:17	1
Methyl acetate	ND		5.0	2.3	ug/L			04/12/13 00:17	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/12/13 00:17	1
Methylcyclohexane	ND		10	0.26	ug/L			04/12/13 00:17	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/12/13 00:17	1
o-Xylene	ND		5.0	0.32	ug/L			04/12/13 00:17	1
Styrene	ND		5.0	0.35	ug/L			04/12/13 00:17	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/12/13 00:17	1
Toluene	ND		5.0	1.0	ug/L			04/12/13 00:17	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/12/13 00:17	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/12/13 00:17	1
Trichloroethene	ND		5.0	0.29	ug/L			04/12/13 00:17	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/12/13 00:17	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/12/13 00:17	1
Xylenes, Total	ND		10	0.85	ug/L			04/12/13 00:17	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		82 - 132		04/12/13 00:17	1
4-Bromofluorobenzene (Surr)	101		82 - 121		04/12/13 00:17	1
Dibromofluoromethane (Surr)	109		85 - 119		04/12/13 00:17	1
Toluene-d8 (Surr)	102		85 - 115		04/12/13 00:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	46000		1000	400	ug/L		04/11/13 13:32	04/15/13 17:43	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:43	5
Arsenic	19 J		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:43	5
Barium	1000		250	20	ug/L		04/11/13 13:32	04/15/13 17:43	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:43	5
Cadmium	11 J		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:43	5
Calcium	300000 E		5000	530	ug/L		04/11/13 13:32	04/15/13 17:43	5
Calcium	320000		10000	1100	ug/L		04/11/13 13:32	04/16/13 15:43	10
Chromium	90		50	16	ug/L		04/11/13 13:32	04/15/13 17:43	5
Cobalt	39 J		250	20	ug/L		04/11/13 13:32	04/15/13 17:43	5
Copper	85 J		130	23	ug/L		04/11/13 13:32	04/15/13 17:43	5
Iron	35000		500	140	ug/L		04/11/13 13:32	04/15/13 17:43	5
Lead	140		50	7.5	ug/L		04/11/13 13:32	04/15/13 17:43	5
Magnesium	79000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:43	5
Manganese	2200		75	17	ug/L		04/11/13 13:32	04/15/13 17:43	5
Nickel	160 J		200	67	ug/L		04/11/13 13:32	04/15/13 17:43	5
Potassium	15000 J		25000	8300	ug/L		04/11/13 13:32	04/15/13 17:43	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:43	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:43	5
Sodium	360000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:43	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:43	5
Vanadium	110 J		250	20	ug/L		04/11/13 13:32	04/15/13 17:43	5
Zinc	540 B		100	26	ug/L		04/11/13 13:32	04/15/13 17:43	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: I-68

Lab Sample ID: 160-2044-10

Date Collected: 04/09/13 10:44

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:37	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/17/13 18:28	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:21	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/18/13 17:12	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:30	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:37	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/17/13 18:28	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:21	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/18/13 17:12	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:30	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:37	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:28	10
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:21	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:12	10
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:30	5
Barium	620		250	20	ug/L		04/11/13 13:35	04/17/13 17:37	5
Barium	620		500	40	ug/L		04/11/13 13:35	04/17/13 18:28	10
Barium	600		250	20	ug/L		04/11/13 13:35	04/18/13 16:21	5
Barium	600		500	40	ug/L		04/11/13 13:35	04/18/13 17:12	10
Barium	570		250	20	ug/L		04/11/13 13:35	04/19/13 17:30	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:37	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/17/13 18:28	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:21	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/18/13 17:12	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:30	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:37	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/17/13 18:28	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:21	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/18/13 17:12	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:30	5
Calcium	220000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:37	5
Calcium	220000		10000	1100	ug/L		04/11/13 13:35	04/17/13 18:28	10
Calcium	220000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:21	5
Calcium	230000		10000	1100	ug/L		04/11/13 13:35	04/18/13 17:12	10
Calcium	210000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:30	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:37	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/17/13 18:28	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:21	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/18/13 17:12	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:30	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:37	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/17/13 18:28	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:21	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/18/13 17:12	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:37	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/17/13 18:28	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:21	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/18/13 17:12	10

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-68**Lab Sample ID: 160-2044-10**

Date Collected: 04/09/13 10:44

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:30	5
Iron	430 J		500	140	ug/L		04/11/13 13:35	04/17/13 17:37	5
Iron	450 J		1000	280	ug/L		04/11/13 13:35	04/17/13 18:28	10
Iron	430 J		500	140	ug/L		04/11/13 13:35	04/18/13 16:21	5
Iron	460 J		1000	280	ug/L		04/11/13 13:35	04/18/13 17:12	10
Iron	410 J		500	140	ug/L		04/11/13 13:35	04/19/13 17:30	5
Lead	8.0 J		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:37	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/17/13 18:28	10
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:21	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/18/13 17:12	10
Lead	11 J		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:30	5
Magnesium	58000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:37	5
Magnesium	58000		10000	1300	ug/L		04/11/13 13:35	04/17/13 18:28	10
Magnesium	56000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:21	5
Magnesium	57000		10000	1300	ug/L		04/11/13 13:35	04/18/13 17:12	10
Magnesium	54000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:30	5
Manganese	1800		75	17	ug/L		04/11/13 13:35	04/17/13 17:37	5
Manganese	1800		150	33	ug/L		04/11/13 13:35	04/17/13 18:28	10
Manganese	1700		75	17	ug/L		04/11/13 13:35	04/18/13 16:21	5
Manganese	1700		150	33	ug/L		04/11/13 13:35	04/18/13 17:12	10
Manganese	1700		75	17	ug/L		04/11/13 13:35	04/19/13 17:30	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:37	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/17/13 18:28	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:21	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/18/13 17:12	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:30	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:37	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/17/13 18:28	10
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:21	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/18/13 17:12	10
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:30	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:37	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/17/13 18:28	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:21	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/18/13 17:12	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:30	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:37	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/17/13 18:28	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:21	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/18/13 17:12	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:30	5
Sodium	380000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:37	5
Sodium	380000		10000	3200	ug/L		04/11/13 13:35	04/17/13 18:28	10
Sodium	370000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:21	5
Sodium	380000		10000	3200	ug/L		04/11/13 13:35	04/18/13 17:12	10
Sodium	360000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:30	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:37	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/17/13 18:28	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:21	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-68**Lab Sample ID: 160-2044-10**

Date Collected: 04/09/13 10:44

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/18/13 17:12	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:30	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:37	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/17/13 18:28	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:21	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/18/13 17:12	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:30	5
Zinc	30 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:37	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/17/13 18:28	10
Zinc	28 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:21	5
Zinc	54 J		200	52	ug/L		04/11/13 13:35	04/18/13 17:12	10
Zinc	34 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:53	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061	J	0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L			04/11/13 00:11	1
Bromide	0.11 J		0.25	0.025	mg/L			04/11/13 00:11	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 22:00	1
Alkalinity	500		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	36		10	1.0	mg/L			04/11/13 00:27	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		40	4.0	mg/L			04/11/13 08:25	200

Client Sample ID: D-87**Lab Sample ID: 160-2044-11**

Date Collected: 04/09/13 11:05

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 14:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 14:52	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 14:52	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 14:52	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 14:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 14:52	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 14:52	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 14:52	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 14:52	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-87**Lab Sample ID: 160-2044-11**

Date Collected: 04/09/13 11:05

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	0.32	ug/L		04/11/13 14:52		1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L		04/11/13 14:52		1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L		04/11/13 14:52		1
2-Butanone (MEK)	ND		20	0.39	ug/L		04/11/13 14:52		1
2-Hexanone	ND		20	0.59	ug/L		04/11/13 14:52		1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L		04/11/13 14:52		1
Acetone	ND		20	6.7	ug/L		04/11/13 14:52		1
Benzene	ND		5.0	0.25	ug/L		04/11/13 14:52		1
Bromodichloromethane	ND		5.0	0.25	ug/L		04/11/13 14:52		1
Bromoform	ND		5.0	0.37	ug/L		04/11/13 14:52		1
Bromomethane	ND		10	0.40	ug/L		04/11/13 14:52		1
Carbon disulfide	ND		5.0	0.37	ug/L		04/11/13 14:52		1
Carbon tetrachloride	ND		5.0	0.36	ug/L		04/11/13 14:52		1
Chlorobenzene	ND		5.0	0.38	ug/L		04/11/13 14:52		1
Chloroethane	ND		10	0.38	ug/L		04/11/13 14:52		1
Chloroform	ND		5.0	0.15	ug/L		04/11/13 14:52		1
Chloromethane	ND		10	0.55	ug/L		04/11/13 14:52		1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L		04/11/13 14:52		1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L		04/11/13 14:52		1
Cyclohexane	ND		10	0.36	ug/L		04/11/13 14:52		1
Dibromochloromethane	ND		5.0	0.33	ug/L		04/11/13 14:52		1
Dichlorodifluoromethane	ND		10	0.45	ug/L		04/11/13 14:52		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/11/13 14:52		1
Ethylbenzene	ND *		5.0	0.30	ug/L		04/11/13 14:52		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 14:52		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 14:52		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 14:52		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 14:52		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 14:52		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 14:52		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 14:52		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 14:52		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 14:52		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 14:52		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 14:52		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 14:52		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 14:52		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 14:52		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 14:52		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 14:52		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		82 - 132		04/11/13 14:52	1
4-Bromofluorobenzene (Surr)	84		82 - 121		04/11/13 14:52	1
Dibromofluoromethane (Surr)	99		85 - 119		04/11/13 14:52	1
Toluene-d8 (Surr)	88		85 - 115		04/11/13 14:52	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	740	J	1000	400	ug/L		04/11/13 13:32	04/15/13 17:47	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-87

Date Collected: 04/09/13 11:05

Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-11

Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:47	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:47	5
Barium	1400		250	20	ug/L		04/11/13 13:32	04/15/13 17:47	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:47	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:47	5
Calcium	280000	E	5000	530	ug/L		04/11/13 13:32	04/15/13 17:47	5
Calcium	300000		10000	1100	ug/L		04/11/13 13:32	04/17/13 15:15	10
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 17:47	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:47	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:47	5
Iron	33000		500	140	ug/L		04/11/13 13:32	04/15/13 17:47	5
Lead	10	J	50	7.5	ug/L		04/11/13 13:32	04/15/13 17:47	5
Magnesium	70000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:47	5
Manganese	620		75	17	ug/L		04/11/13 13:32	04/15/13 17:47	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:47	5
Potassium	12000	J	25000	8300	ug/L		04/11/13 13:32	04/15/13 17:47	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:47	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:47	5
Sodium	190000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:47	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:47	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:47	5
Zinc	31	J B	100	26	ug/L		04/11/13 13:32	04/15/13 17:47	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:40	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/17/13 18:32	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:24	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/18/13 17:16	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:33	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:40	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/17/13 18:32	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:24	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/18/13 17:16	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:33	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:40	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:32	10
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:24	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:16	10
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:33	5
Barium	1400		250	20	ug/L		04/11/13 13:35	04/17/13 17:40	5
Barium	1400		500	40	ug/L		04/11/13 13:35	04/17/13 18:32	10
Barium	1400		250	20	ug/L		04/11/13 13:35	04/18/13 16:24	5
Barium	1400		500	40	ug/L		04/11/13 13:35	04/18/13 17:16	10
Barium	1300		250	20	ug/L		04/11/13 13:35	04/19/13 17:33	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:40	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/17/13 18:32	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:24	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/18/13 17:16	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:33	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-87

Date Collected: 04/09/13 11:05
Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-11

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		25	4.6	ug/L	04/11/13 13:35	04/17/13 17:40	5	1
Cadmium	ND		50	9.1	ug/L	04/11/13 13:35	04/17/13 18:32	10	2
Cadmium	ND		25	4.6	ug/L	04/11/13 13:35	04/18/13 16:24	5	3
Cadmium	ND		50	9.1	ug/L	04/11/13 13:35	04/18/13 17:16	10	4
Cadmium	ND		25	4.6	ug/L	04/11/13 13:35	04/19/13 17:33	5	5
Calcium	290000	E	5000	530	ug/L	04/11/13 13:35	04/17/13 17:40	5	6
Calcium	300000		10000	1100	ug/L	04/11/13 13:35	04/17/13 18:32	10	7
Calcium	300000	E	5000	530	ug/L	04/11/13 13:35	04/18/13 16:24	5	8
Calcium	310000		10000	1100	ug/L	04/11/13 13:35	04/18/13 17:16	10	9
Calcium	280000	E	5000	530	ug/L	04/11/13 13:35	04/19/13 17:33	5	10
Calcium	300000		10000	1100	ug/L	04/11/13 13:35	04/19/13 18:25	10	11
Chromium	ND		50	16	ug/L	04/11/13 13:35	04/17/13 17:40	5	12
Chromium	ND		100	31	ug/L	04/11/13 13:35	04/17/13 18:32	10	13
Chromium	ND		50	16	ug/L	04/11/13 13:35	04/18/13 16:24	5	14
Chromium	ND		100	31	ug/L	04/11/13 13:35	04/18/13 17:16	10	15
Chromium	ND		50	16	ug/L	04/11/13 13:35	04/19/13 17:33	5	16
Cobalt	ND		250	20	ug/L	04/11/13 13:35	04/17/13 17:40	5	17
Cobalt	ND		500	40	ug/L	04/11/13 13:35	04/17/13 18:32	10	18
Cobalt	ND		250	20	ug/L	04/11/13 13:35	04/18/13 16:24	5	19
Cobalt	ND		500	40	ug/L	04/11/13 13:35	04/18/13 17:16	10	20
Cobalt	ND		250	20	ug/L	04/11/13 13:35	04/19/13 17:33	5	21
Copper	ND		130	23	ug/L	04/11/13 13:35	04/17/13 17:40	5	22
Copper	ND		250	46	ug/L	04/11/13 13:35	04/17/13 18:32	10	23
Copper	ND		130	23	ug/L	04/11/13 13:35	04/18/13 16:24	5	24
Copper	ND		250	46	ug/L	04/11/13 13:35	04/18/13 17:16	10	25
Copper	ND		130	23	ug/L	04/11/13 13:35	04/19/13 17:33	5	26
Iron	34000		500	140	ug/L	04/11/13 13:35	04/17/13 17:40	5	27
Iron	34000		1000	280	ug/L	04/11/13 13:35	04/17/13 18:32	10	28
Iron	35000		500	140	ug/L	04/11/13 13:35	04/18/13 16:24	5	29
Iron	36000		1000	280	ug/L	04/11/13 13:35	04/18/13 17:16	10	30
Iron	33000		500	140	ug/L	04/11/13 13:35	04/19/13 17:33	5	31
Lead	ND		50	7.5	ug/L	04/11/13 13:35	04/17/13 17:40	5	32
Lead	ND		100	15	ug/L	04/11/13 13:35	04/17/13 18:32	10	33
Lead	ND		50	7.5	ug/L	04/11/13 13:35	04/18/13 16:24	5	34
Lead	ND		100	15	ug/L	04/11/13 13:35	04/18/13 17:16	10	35
Lead	ND		50	7.5	ug/L	04/11/13 13:35	04/19/13 17:33	5	36
Magnesium	72000		5000	660	ug/L	04/11/13 13:35	04/17/13 17:40	5	37
Magnesium	73000		10000	1300	ug/L	04/11/13 13:35	04/17/13 18:32	10	38
Magnesium	73000		5000	660	ug/L	04/11/13 13:35	04/18/13 16:24	5	39
Magnesium	73000		10000	1300	ug/L	04/11/13 13:35	04/18/13 17:16	10	40
Magnesium	69000		5000	660	ug/L	04/11/13 13:35	04/19/13 17:33	5	41
Manganese	640		75	17	ug/L	04/11/13 13:35	04/17/13 17:40	5	42
Manganese	670		150	33	ug/L	04/11/13 13:35	04/17/13 18:32	10	43
Manganese	640		75	17	ug/L	04/11/13 13:35	04/18/13 16:24	5	44
Manganese	630		150	33	ug/L	04/11/13 13:35	04/18/13 17:16	10	45
Manganese	610		75	17	ug/L	04/11/13 13:35	04/19/13 17:33	5	46
Nickel	ND		200	67	ug/L	04/11/13 13:35	04/17/13 17:40	5	47
Nickel	ND		400	130	ug/L	04/11/13 13:35	04/17/13 18:32	10	48
Nickel	ND		200	67	ug/L	04/11/13 13:35	04/18/13 16:24	5	49

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-87**Lab Sample ID: 160-2044-11**

Date Collected: 04/09/13 11:05

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/18/13 17:16	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:33	5
Potassium	12000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:40	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/17/13 18:32	10
Potassium	12000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:24	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/18/13 17:16	10
Potassium	11000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:33	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:40	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/17/13 18:32	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:24	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/18/13 17:16	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:33	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:40	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/17/13 18:32	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:24	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/18/13 17:16	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:33	5
Sodium	190000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:40	5
Sodium	190000		10000	3200	ug/L		04/11/13 13:35	04/17/13 18:32	10
Sodium	190000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:24	5
Sodium	190000		10000	3200	ug/L		04/11/13 13:35	04/18/13 17:16	10
Sodium	180000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:33	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:40	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/17/13 18:32	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:24	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/18/13 17:16	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:33	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:40	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/17/13 18:32	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:24	5
Vanadium	59 J		500	41	ug/L		04/11/13 13:35	04/18/13 17:16	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:33	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 17:40	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/17/13 18:32	10
Zinc	27 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:24	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/18/13 17:16	10
Zinc	30 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069 J		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0070	J	0.020	0.0040	mg/L		04/11/13 00:42		1
Bromide	4.7		0.25	0.025	mg/L		04/11/13 00:42		1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: D-87

Date Collected: 04/09/13 11:05
Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-11

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.5		0.50	0.050	mg/L			04/11/13 00:42	1
Iodide	0.27	J	1.0	0.10	mg/L			04/15/13 22:14	1
Alkalinity	960		5.0	0.54	mg/L			04/17/13 13:12	1

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		40	4.0	mg/L			04/11/13 08:40	200

Client Sample ID: PZ-106-SD

Date Collected: 04/09/13 12:00
Date Received: 04/10/13 08:33

Lab Sample ID: 160-2044-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 15:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 15:17	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 15:17	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 15:17	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 15:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 15:17	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 15:17	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 15:17	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 15:17	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 15:17	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 15:17	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 15:17	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 15:17	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 15:17	1
Acetone	ND		20	6.7	ug/L			04/11/13 15:17	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 15:17	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 15:17	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 15:17	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 15:17	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 15:17	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 15:17	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 15:17	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 15:17	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 15:17	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 15:17	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 15:17	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 15:17	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 15:17	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 15:17	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 15:17	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 15:17	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 15:17	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 15:17	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 15:17	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 15:17	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-106-SD**Lab Sample ID: 160-2044-12**

Date Collected: 04/09/13 12:00

Matrix: Water

Date Received: 04/10/13 08:33

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Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 15:17	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 15:17	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 15:17	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 15:17	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 15:17	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 15:17	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 15:17	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 15:17	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 15:17	1
Trichloroethylene	ND		5.0	0.29	ug/L			04/11/13 15:17	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 15:17	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 15:17	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		82 - 132					04/11/13 15:17	1
4-Bromofluorobenzene (Surr)	84		82 - 121					04/11/13 15:17	1
Dibromofluoromethane (Surr)	99		85 - 119					04/11/13 15:17	1
Toluene-d8 (Surr)	88		85 - 115					04/11/13 15:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3300		1000	400	ug/L		04/11/13 13:32	04/15/13 17:58	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 17:58	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 17:58	5
Barium	140 J		250	20	ug/L		04/11/13 13:32	04/15/13 17:58	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 17:58	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 17:58	5
Calcium	120000		5000	530	ug/L		04/11/13 13:32	04/15/13 17:58	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 17:58	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 17:58	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 17:58	5
Iron	5000		500	140	ug/L		04/11/13 13:32	04/15/13 17:58	5
Lead	11 J		50	7.5	ug/L		04/11/13 13:32	04/15/13 17:58	5
Magnesium	54000		5000	660	ug/L		04/11/13 13:32	04/15/13 17:58	5
Manganese	170		75	17	ug/L		04/11/13 13:32	04/15/13 17:58	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 17:58	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 17:58	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 17:58	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 17:58	5
Sodium	11000		5000	1600	ug/L		04/11/13 13:32	04/15/13 17:58	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 17:58	5
Vanadium	20 J		250	20	ug/L		04/11/13 13:32	04/15/13 17:58	5
Zinc	66 J B		100	26	ug/L		04/11/13 13:32	04/15/13 17:58	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:44	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:28	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:37	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-106-SD

Lab Sample ID: 160-2044-12

Date Collected: 04/09/13 12:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:44	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:28	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:37	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:44	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:28	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:37	5
Barium	99 J		250	20	ug/L		04/11/13 13:35	04/17/13 17:44	5
Barium	95 J		250	20	ug/L		04/11/13 13:35	04/18/13 16:28	5
Barium	94 J		250	20	ug/L		04/11/13 13:35	04/19/13 17:37	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:44	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:28	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:37	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:44	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:28	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:37	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:44	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:28	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:37	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:44	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:28	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:37	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:44	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:28	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:37	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:44	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:28	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:37	5
Iron	1100		500	140	ug/L		04/11/13 13:35	04/17/13 17:44	5
Iron	1100		500	140	ug/L		04/11/13 13:35	04/18/13 16:28	5
Iron	1100		500	140	ug/L		04/11/13 13:35	04/19/13 17:37	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:44	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:28	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:37	5
Magnesium	54000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:44	5
Magnesium	53000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:28	5
Magnesium	52000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:37	5
Manganese	130		75	17	ug/L		04/11/13 13:35	04/17/13 17:44	5
Manganese	120		75	17	ug/L		04/11/13 13:35	04/18/13 16:28	5
Manganese	120		75	17	ug/L		04/11/13 13:35	04/19/13 17:37	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:44	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:28	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:37	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:44	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:28	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:37	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:44	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:28	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:37	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:44	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-106-SD**Lab Sample ID: 160-2044-12**

Date Collected: 04/09/13 12:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:28	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:37	5
Sodium	11000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:44	5
Sodium	11000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:28	5
Sodium	11000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:37	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:44	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:28	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:37	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:44	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:28	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:37	5
Zinc	27 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:44	5
Zinc	32 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:28	5
Zinc	38 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062	J	0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0054	J	0.020	0.0040	mg/L			04/11/13 01:13	1
Bromide	0.058	J	0.25	0.025	mg/L			04/11/13 01:13	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 22:29	1
Alkalinity	390		5.0	0.54	mg/L			04/17/13 13:12	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		4.0	0.40	mg/L			04/11/13 01:29	20
Sulfate	69		10	1.0	mg/L			04/11/13 01:29	20

Client Sample ID: S-82**Lab Sample ID: 160-2044-13**

Date Collected: 04/09/13 12:27

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 15:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 15:41	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 15:41	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 15:41	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 15:41	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 15:41	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 15:41	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 15:41	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 15:41	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 15:41	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: S-82**Lab Sample ID: 160-2044-13**

Date Collected: 04/09/13 12:27

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 15:41	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 15:41	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 15:41	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 15:41	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 15:41	1
Acetone	ND		20	6.7	ug/L			04/11/13 15:41	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 15:41	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 15:41	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 15:41	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 15:41	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 15:41	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 15:41	1
Chlorobenzene	0.87 J		5.0	0.38	ug/L			04/11/13 15:41	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 15:41	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 15:41	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 15:41	1
cis-1,2-Dichloroethene	1.3 J		5.0	0.16	ug/L			04/11/13 15:41	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 15:41	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 15:41	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 15:41	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 15:41	1
Ethylbenzene	ND *		5.0	0.30	ug/L			04/11/13 15:41	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 15:41	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 15:41	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 15:41	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 15:41	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 15:41	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 15:41	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 15:41	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 15:41	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 15:41	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 15:41	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 15:41	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 15:41	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 15:41	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 15:41	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		82 - 121			1
1,2-Dichloroethane-d4 (Surr)	95		82 - 132			1
Toluene-d8 (Surr)	90		85 - 115			1
Dibromofluoromethane (Surr)	100		85 - 119			1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4300		1000	400	ug/L		04/11/13 13:32	04/15/13 18:01	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:01	5
Arsenic	230		50	9.9	ug/L		04/11/13 13:32	04/15/13 18:01	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: S-82**Lab Sample ID: 160-2044-13**

Date Collected: 04/09/13 12:27

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1300		250	20	ug/L		04/11/13 13:32	04/15/13 18:01	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:01	5
Cadmium	6.0 J		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:01	5
Calcium	240000		5000	530	ug/L		04/11/13 13:32	04/15/13 18:01	5
Chromium	17 J		50	16	ug/L		04/11/13 13:32	04/15/13 18:01	5
Cobalt	62 J		250	20	ug/L		04/11/13 13:32	04/15/13 18:01	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:01	5
Iron	59000		500	140	ug/L		04/11/13 13:32	04/15/13 18:01	5
Lead	110		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:01	5
Magnesium	89000		5000	660	ug/L		04/11/13 13:32	04/15/13 18:01	5
Manganese	2600		75	17	ug/L		04/11/13 13:32	04/15/13 18:01	5
Nickel	180 J		200	67	ug/L		04/11/13 13:32	04/15/13 18:01	5
Potassium	13000 J		25000	8300	ug/L		04/11/13 13:32	04/15/13 18:01	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:01	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:01	5
Sodium	410000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:01	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:01	5
Vanadium	44 J		250	20	ug/L		04/11/13 13:32	04/15/13 18:01	5
Zinc	160 B		100	26	ug/L		04/11/13 13:32	04/15/13 18:01	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:48	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:32	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:41	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:48	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:32	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:41	5
Arsenic	210		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:48	5
Arsenic	220		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:32	5
Arsenic	210		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:41	5
Barium	810		250	20	ug/L		04/11/13 13:35	04/17/13 17:48	5
Barium	800		250	20	ug/L		04/11/13 13:35	04/18/13 16:32	5
Barium	790		250	20	ug/L		04/11/13 13:35	04/19/13 17:41	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:48	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:32	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:41	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:48	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:32	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:41	5
Calcium	190000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:48	5
Calcium	200000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:32	5
Calcium	190000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:41	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:48	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:32	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:41	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:48	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:32	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:41	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:48	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: S-82**Lab Sample ID: 160-2044-13**

Date Collected: 04/09/13 12:27

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:32	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:41	5
Iron	39000		500	140	ug/L		04/11/13 13:35	04/17/13 17:48	5
Iron	41000		500	140	ug/L		04/11/13 13:35	04/18/13 16:32	5
Iron	39000		500	140	ug/L		04/11/13 13:35	04/19/13 17:41	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:48	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:32	5
Lead	9.0 J		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:41	5
Magnesium	80000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:48	5
Magnesium	81000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:32	5
Magnesium	80000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:41	5
Manganese	1800		75	17	ug/L		04/11/13 13:35	04/17/13 17:48	5
Manganese	1700		75	17	ug/L		04/11/13 13:35	04/18/13 16:32	5
Manganese	1700		75	17	ug/L		04/11/13 13:35	04/19/13 17:41	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:48	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:32	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:41	5
Potassium	11000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:48	5
Potassium	11000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:32	5
Potassium	11000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:41	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:48	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:32	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:41	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:48	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:32	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:41	5
Sodium	440000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:48	5
Sodium	450000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:32	5
Sodium	430000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:41	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:48	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:32	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:41	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:48	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:32	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:41	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 17:48	5
Zinc	33 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:32	5
Zinc	31 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:58	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068 J		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.017 J		0.020	0.0040	mg/L		04/11/13 02:46		1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: S-82**Lab Sample ID: 160-2044-13**

Date Collected: 04/09/13 12:27
 Date Received: 04/10/13 08:33

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	4.0		0.25	0.025	mg/L			04/11/13 02:46	1
Sulfate	16		0.50	0.050	mg/L			04/11/13 02:46	1
Iodide	0.46 J		1.0	0.10	mg/L			04/15/13 22:58	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1200		25	2.7	mg/L			04/17/13 13:12	5

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		40	4.0	mg/L			04/11/13 08:56	200

Client Sample ID: PZ-106-SS**Lab Sample ID: 160-2044-14**

Date Collected: 04/09/13 12:56
 Date Received: 04/10/13 08:33

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 16:06	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 16:06	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 16:06	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 16:06	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 16:06	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 16:06	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 16:06	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 16:06	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 16:06	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 16:06	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 16:06	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 16:06	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 16:06	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 16:06	1
Acetone	ND		20	6.7	ug/L			04/11/13 16:06	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 16:06	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 16:06	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 16:06	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 16:06	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 16:06	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 16:06	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 16:06	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 16:06	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 16:06	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 16:06	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 16:06	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 16:06	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 16:06	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 16:06	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 16:06	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 16:06	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-106-SS**Lab Sample ID: 160-2044-14**

Date Collected: 04/09/13 12:56

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND *		5.0	0.30	ug/L		04/11/13 16:06		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 16:06		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 16:06		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 16:06		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 16:06		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 16:06		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 16:06		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 16:06		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 16:06		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 16:06		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 16:06		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 16:06		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 16:06		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 16:06		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 16:06		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 16:06		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 16:06		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		82 - 132		04/11/13 16:06	1
4-Bromofluorobenzene (Surr)	82		82 - 121		04/11/13 16:06	1
Dibromofluoromethane (Surr)	97		85 - 119		04/11/13 16:06	1
Toluene-d8 (Surr)	85		85 - 115		04/11/13 16:06	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:32	04/15/13 18:05	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:05	5
Arsenic	12 J		50	9.9	ug/L		04/11/13 13:32	04/15/13 18:05	5
Barium	150 J		250	20	ug/L		04/11/13 13:32	04/15/13 18:05	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:05	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:05	5
Calcium	110000		5000	530	ug/L		04/11/13 13:32	04/15/13 18:05	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 18:05	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:05	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:05	5
Iron	1000		500	140	ug/L		04/11/13 13:32	04/15/13 18:05	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:05	5
Magnesium	51000		5000	660	ug/L		04/11/13 13:32	04/15/13 18:05	5
Manganese	32 J		75	17	ug/L		04/11/13 13:32	04/15/13 18:05	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 18:05	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 18:05	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:05	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:05	5
Sodium	15000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:05	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:05	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:05	5
Zinc	28 J B		100	26	ug/L		04/11/13 13:32	04/15/13 18:05	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-106-SS**Lab Sample ID: 160-2044-14**

Date Collected: 04/09/13 12:56

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:51	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:35	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:45	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:51	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:35	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:45	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:51	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:35	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:45	5
Barium	150 J		250	20	ug/L		04/11/13 13:35	04/17/13 17:51	5
Barium	150 J		250	20	ug/L		04/11/13 13:35	04/18/13 16:35	5
Barium	150 J		250	20	ug/L		04/11/13 13:35	04/19/13 17:45	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:51	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:35	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:45	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:51	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:35	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:45	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/17/13 17:51	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:35	5
Calcium	110000		5000	530	ug/L		04/11/13 13:35	04/19/13 17:45	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:51	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:35	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:45	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:51	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:35	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:45	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:51	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:35	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:45	5
Iron	830		500	140	ug/L		04/11/13 13:35	04/17/13 17:51	5
Iron	870		500	140	ug/L		04/11/13 13:35	04/18/13 16:35	5
Iron	820		500	140	ug/L		04/11/13 13:35	04/19/13 17:45	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:51	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:35	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:45	5
Magnesium	52000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:51	5
Magnesium	52000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:35	5
Magnesium	50000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:45	5
Manganese	31 J		75	17	ug/L		04/11/13 13:35	04/17/13 17:51	5
Manganese	32 J		75	17	ug/L		04/11/13 13:35	04/18/13 16:35	5
Manganese	31 J		75	17	ug/L		04/11/13 13:35	04/19/13 17:45	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:51	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:35	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:45	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:51	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:35	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:45	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:51	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-106-SS**Lab Sample ID: 160-2044-14**

Date Collected: 04/09/13 12:56

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:35	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:45	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:51	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:35	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:45	5
Sodium	16000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:51	5
Sodium	16000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:35	5
Sodium	15000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:45	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:51	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:35	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:45	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:51	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:35	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:45	5
Zinc	32 J		100	26	ug/L		04/11/13 13:35	04/17/13 17:51	5
Zinc	39 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:35	5
Zinc	34 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066 J		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040 J		0.020	0.0040	mg/L			04/11/13 03:16	1
Bromide	0.080 J		0.25	0.025	mg/L			04/11/13 03:16	1
Iodide	ND		1.0	0.10	mg/L			04/15/13 23:12	1
Alkalinity	400		5.0	0.54	mg/L			04/17/13 13:12	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		4.0	0.40	mg/L			04/11/13 03:32	20
Sulfate	50		10	1.0	mg/L			04/11/13 03:32	20

Client Sample ID: I-9**Lab Sample ID: 160-2044-15**

Date Collected: 04/09/13 13:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/12/13 01:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/12/13 01:07	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/12/13 01:07	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/12/13 01:07	1
1,1-Dichloroethene	ND *		5.0	0.37	ug/L			04/12/13 01:07	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/12/13 01:07	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/12/13 01:07	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-9**Lab Sample ID: 160-2044-15**

Date Collected: 04/09/13 13:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L		04/12/13 01:07		1
1,2-Dichloroethane	ND		5.0	0.37	ug/L		04/12/13 01:07		1
1,2-Dichloropropane	ND		5.0	0.32	ug/L		04/12/13 01:07		1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L		04/12/13 01:07		1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L		04/12/13 01:07		1
2-Butanone (MEK)	ND		20	0.39	ug/L		04/12/13 01:07		1
2-Hexanone	ND		20	0.59	ug/L		04/12/13 01:07		1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L		04/12/13 01:07		1
Acetone	ND		20	6.7	ug/L		04/12/13 01:07		1
Benzene	ND		5.0	0.25	ug/L		04/12/13 01:07		1
Bromodichloromethane	ND		5.0	0.25	ug/L		04/12/13 01:07		1
Bromoform	ND		5.0	0.37	ug/L		04/12/13 01:07		1
Bromomethane	ND *		10	0.40	ug/L		04/12/13 01:07		1
Carbon disulfide	ND		5.0	0.37	ug/L		04/12/13 01:07		1
Carbon tetrachloride	ND		5.0	0.36	ug/L		04/12/13 01:07		1
Chlorobenzene	ND		5.0	0.38	ug/L		04/12/13 01:07		1
Chloroethane	ND		10	0.38	ug/L		04/12/13 01:07		1
Chloroform	ND		5.0	0.15	ug/L		04/12/13 01:07		1
Chloromethane	ND		10	0.55	ug/L		04/12/13 01:07		1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L		04/12/13 01:07		1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L		04/12/13 01:07		1
Cyclohexane	ND		10	0.36	ug/L		04/12/13 01:07		1
Dibromochloromethane	ND		5.0	0.33	ug/L		04/12/13 01:07		1
Dichlorodifluoromethane	ND		10	0.45	ug/L		04/12/13 01:07		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/12/13 01:07		1
Ethylbenzene	ND		5.0	0.30	ug/L		04/12/13 01:07		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/12/13 01:07		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/12/13 01:07		1
Methyl acetate	ND		5.0	2.3	ug/L		04/12/13 01:07		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/12/13 01:07		1
Methylcyclohexane	ND		10	0.26	ug/L		04/12/13 01:07		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/12/13 01:07		1
o-Xylene	ND		5.0	0.32	ug/L		04/12/13 01:07		1
Styrene	ND		5.0	0.35	ug/L		04/12/13 01:07		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/12/13 01:07		1
Toluene	ND		5.0	1.0	ug/L		04/12/13 01:07		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/12/13 01:07		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/12/13 01:07		1
Trichloroethene	ND		5.0	0.29	ug/L		04/12/13 01:07		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/12/13 01:07		1
Vinyl chloride	2.8 J		5.0	0.43	ug/L		04/12/13 01:07		1
Xylenes, Total	ND		10	0.85	ug/L		04/12/13 01:07		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		82 - 132		04/12/13 01:07	1
4-Bromofluorobenzene (Surr)	97		82 - 121		04/12/13 01:07	1
Dibromofluoromethane (Surr)	102		85 - 119		04/12/13 01:07	1
Toluene-d8 (Surr)	95		85 - 115		04/12/13 01:07	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-9**Lab Sample ID: 160-2044-15**

Date Collected: 04/09/13 13:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:32	04/15/13 18:09	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:09	5
Arsenic	26 J		50	9.9	ug/L		04/11/13 13:32	04/15/13 18:09	5
Barium	1400		250	20	ug/L		04/11/13 13:32	04/15/13 18:09	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:09	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:09	5
Calcium	260000 E		5000	530	ug/L		04/11/13 13:32	04/15/13 18:09	5
Calcium	270000		10000	1100	ug/L		04/11/13 13:32	04/16/13 15:47	10
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 18:09	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:09	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:09	5
Iron	34000		500	140	ug/L		04/11/13 13:32	04/15/13 18:09	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:09	5
Magnesium	72000		5000	660	ug/L		04/11/13 13:32	04/15/13 18:09	5
Manganese	1200		75	17	ug/L		04/11/13 13:32	04/15/13 18:09	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 18:09	5
Potassium	20000 J		25000	8300	ug/L		04/11/13 13:32	04/15/13 18:09	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:09	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:09	5
Sodium	250000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:09	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:09	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:09	5
Zinc	31 J B		100	26	ug/L		04/11/13 13:32	04/15/13 18:09	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:55	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/17/13 18:36	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:39	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/18/13 17:20	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:48	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:55	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/17/13 18:36	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:39	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/18/13 17:20	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:48	5
Arsenic	30 J		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:55	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:36	10
Arsenic	27 J		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:39	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:20	10
Arsenic	21 J		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:48	5
Barium	1500		250	20	ug/L		04/11/13 13:35	04/17/13 17:55	5
Barium	1500		500	40	ug/L		04/11/13 13:35	04/17/13 18:36	10
Barium	1500		250	20	ug/L		04/11/13 13:35	04/18/13 16:39	5
Barium	1500		500	40	ug/L		04/11/13 13:35	04/18/13 17:20	10
Barium	1400		250	20	ug/L		04/11/13 13:35	04/19/13 17:48	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:55	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/17/13 18:36	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:39	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/18/13 17:20	10

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-9**Lab Sample ID: 160-2044-15**

Date Collected: 04/09/13 13:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:48	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:55	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/17/13 18:36	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:39	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/18/13 17:20	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:48	5
Calcium	270000	E	5000	530	ug/L		04/11/13 13:35	04/17/13 17:55	5
Calcium	280000		10000	1100	ug/L		04/11/13 13:35	04/17/13 18:36	10
Calcium	280000	E	5000	530	ug/L		04/11/13 13:35	04/18/13 16:39	5
Calcium	290000		10000	1100	ug/L		04/11/13 13:35	04/18/13 17:20	10
Calcium	260000	E	5000	530	ug/L		04/11/13 13:35	04/19/13 17:48	5
Calcium	270000		10000	1100	ug/L		04/11/13 13:35	04/19/13 18:29	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:55	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/17/13 18:36	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:39	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/18/13 17:20	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:48	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:55	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/17/13 18:36	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:39	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/18/13 17:20	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:48	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:55	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/17/13 18:36	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:39	5
Iron	35000		500	140	ug/L		04/11/13 13:35	04/17/13 17:55	5
Iron	34000		1000	280	ug/L		04/11/13 13:35	04/17/13 18:36	10
Iron	36000		500	140	ug/L		04/11/13 13:35	04/18/13 16:39	5
Iron	36000		1000	280	ug/L		04/11/13 13:35	04/18/13 17:20	10
Iron	34000		500	140	ug/L		04/11/13 13:35	04/19/13 17:48	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:55	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/17/13 18:36	10
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:39	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/18/13 17:20	10
Lead	9.0	J	50	7.5	ug/L		04/11/13 13:35	04/19/13 17:48	5
Magnesium	74000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:55	5
Magnesium	75000		10000	1300	ug/L		04/11/13 13:35	04/17/13 18:36	10
Magnesium	73000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:39	5
Magnesium	74000		10000	1300	ug/L		04/11/13 13:35	04/18/13 17:20	10
Magnesium	71000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:48	5
Manganese	1200		75	17	ug/L		04/11/13 13:35	04/17/13 17:55	5
Manganese	1200		150	33	ug/L		04/11/13 13:35	04/17/13 18:36	10
Manganese	1200		75	17	ug/L		04/11/13 13:35	04/18/13 16:39	5
Manganese	1200		150	33	ug/L		04/11/13 13:35	04/18/13 17:20	10
Manganese	1100		75	17	ug/L		04/11/13 13:35	04/19/13 17:48	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:55	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/17/13 18:36	10

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: I-9**Lab Sample ID: 160-2044-15**

Date Collected: 04/09/13 13:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:39	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/18/13 17:20	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:48	5
Potassium	20000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:55	5
Potassium	20000 J		50000	17000	ug/L		04/11/13 13:35	04/17/13 18:36	10
Potassium	20000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:39	5
Potassium	21000 J		50000	17000	ug/L		04/11/13 13:35	04/18/13 17:20	10
Potassium	20000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:48	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:55	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/17/13 18:36	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:39	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/18/13 17:20	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:48	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:55	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/17/13 18:36	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:39	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/18/13 17:20	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:48	5
Sodium	250000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:55	5
Sodium	250000		10000	3200	ug/L		04/11/13 13:35	04/17/13 18:36	10
Sodium	250000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:39	5
Sodium	250000		10000	3200	ug/L		04/11/13 13:35	04/18/13 17:20	10
Sodium	240000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:48	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:55	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/17/13 18:36	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:39	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/18/13 17:20	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:48	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:55	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/17/13 18:36	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:39	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/18/13 17:20	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:48	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 17:55	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/17/13 18:36	10
Zinc	29 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:39	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/18/13 17:20	10
Zinc	32 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:48	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:01	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066 J		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L		04/11/13 03:47		1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: I-9
Lab Sample ID: 160-2044-15
Matrix: Water

Date Collected: 04/09/13 13:35
Date Received: 04/10/13 08:33

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	4.0		0.25	0.025	mg/L			04/11/13 03:47	1
Sulfate	0.26 J		0.50	0.050	mg/L			04/11/13 03:47	1
Iodide	0.40 J		1.0	0.10	mg/L			04/15/13 23:26	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1100		25	2.7	mg/L			04/17/13 13:12	5

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		40	4.0	mg/L			04/11/13 09:11	200

Client Sample ID: D-93
Lab Sample ID: 160-2044-16
Matrix: Water

Date Collected: 04/09/13 14:38
Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 16:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 16:55	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 16:55	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 16:55	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 16:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 16:55	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 16:55	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 16:55	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 16:55	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 16:55	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 16:55	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 16:55	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 16:55	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 16:55	1
Acetone	ND		20	6.7	ug/L			04/11/13 16:55	1
Benzene	1.6 J		5.0	0.25	ug/L			04/11/13 16:55	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 16:55	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 16:55	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 16:55	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 16:55	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 16:55	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 16:55	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 16:55	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 16:55	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 16:55	1
cis-1,2-Dichloroethene	22		5.0	0.16	ug/L			04/11/13 16:55	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 16:55	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 16:55	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 16:55	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 16:55	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 16:55	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-93**Lab Sample ID: 160-2044-16**

Date Collected: 04/09/13 14:38

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND *		5.0	0.30	ug/L		04/11/13 16:55		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 16:55		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 16:55		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 16:55		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 16:55		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 16:55		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 16:55		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 16:55		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 16:55		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 16:55		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 16:55		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 16:55		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 16:55		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 16:55		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 16:55		1
Vinyl chloride	23		5.0	0.43	ug/L		04/11/13 16:55		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 16:55		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		82 - 132		04/11/13 16:55	1
4-Bromofluorobenzene (Surr)	85		82 - 121		04/11/13 16:55	1
Dibromofluoromethane (Surr)	101		85 - 119		04/11/13 16:55	1
Toluene-d8 (Surr)	87		85 - 115		04/11/13 16:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1100		1000	400	ug/L		04/11/13 13:32	04/15/13 18:12	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:12	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 18:12	5
Barium	1400		250	20	ug/L		04/11/13 13:32	04/15/13 18:12	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:12	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:12	5
Calcium	290000 E		5000	530	ug/L		04/11/13 13:32	04/15/13 18:12	5
Calcium	290000		10000	1100	ug/L		04/11/13 13:32	04/17/13 15:18	10
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 18:12	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:12	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:12	5
Iron	21000		500	140	ug/L		04/11/13 13:32	04/15/13 18:12	5
Lead	9.5 J		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:12	5
Magnesium	81000		5000	660	ug/L		04/11/13 13:32	04/15/13 18:12	5
Manganese	450		75	17	ug/L		04/11/13 13:32	04/15/13 18:12	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 18:12	5
Potassium	16000 J		25000	8300	ug/L		04/11/13 13:32	04/15/13 18:12	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:12	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:12	5
Sodium	220000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:12	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:12	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:12	5
Zinc	31 J B		100	26	ug/L		04/11/13 13:32	04/15/13 18:12	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-93**Lab Sample ID: 160-2044-16**

Date Collected: 04/09/13 14:38

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 17:59	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/17/13 18:39	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:43	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/18/13 17:23	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 17:52	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 17:59	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/17/13 18:39	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:43	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/18/13 17:23	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 17:52	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 17:59	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:39	10
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:43	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:23	10
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 17:52	5
Barium	1400		250	20	ug/L		04/11/13 13:35	04/17/13 17:59	5
Barium	1400		500	40	ug/L		04/11/13 13:35	04/17/13 18:39	10
Barium	1400		250	20	ug/L		04/11/13 13:35	04/18/13 16:43	5
Barium	1400		500	40	ug/L		04/11/13 13:35	04/18/13 17:23	10
Barium	1400		250	20	ug/L		04/11/13 13:35	04/19/13 17:52	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 17:59	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/17/13 18:39	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:43	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/18/13 17:23	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 17:52	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 17:59	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/17/13 18:39	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:43	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/18/13 17:23	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 17:52	5
Calcium	300000 E		5000	530	ug/L		04/11/13 13:35	04/17/13 17:59	5
Calcium	310000		10000	1100	ug/L		04/11/13 13:35	04/17/13 18:39	10
Calcium	320000 E		5000	530	ug/L		04/11/13 13:35	04/18/13 16:43	5
Calcium	330000		10000	1100	ug/L		04/11/13 13:35	04/18/13 17:23	10
Calcium	290000 E		5000	530	ug/L		04/11/13 13:35	04/19/13 17:52	5
Calcium	310000		10000	1100	ug/L		04/11/13 13:35	04/19/13 18:33	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 17:59	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/17/13 18:39	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:43	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/18/13 17:23	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 17:52	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:59	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/17/13 18:39	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:43	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/18/13 17:23	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:52	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 17:59	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/17/13 18:39	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:43	5

TestAmerica St. Louis

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Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-93**Lab Sample ID: 160-2044-16**

Date Collected: 04/09/13 14:38

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		250	46	ug/L		04/11/13 13:35	04/18/13 17:23	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 17:52	5
Iron	21000		500	140	ug/L		04/11/13 13:35	04/17/13 17:59	5
Iron	21000		1000	280	ug/L		04/11/13 13:35	04/17/13 18:39	10
Iron	22000		500	140	ug/L		04/11/13 13:35	04/18/13 16:43	5
Iron	22000		1000	280	ug/L		04/11/13 13:35	04/18/13 17:23	10
Iron	20000		500	140	ug/L		04/11/13 13:35	04/19/13 17:52	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 17:59	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/17/13 18:39	10
Lead	8.0 J		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:43	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/18/13 17:23	10
Magnesium	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 17:52	5
Magnesium	82000		5000	660	ug/L		04/11/13 13:35	04/17/13 17:59	5
Magnesium	84000		10000	1300	ug/L		04/11/13 13:35	04/17/13 18:39	10
Magnesium	84000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:43	5
Magnesium	84000		10000	1300	ug/L		04/11/13 13:35	04/18/13 17:23	10
Magnesium	79000		5000	660	ug/L		04/11/13 13:35	04/19/13 17:52	5
Manganese	430		75	17	ug/L		04/11/13 13:35	04/17/13 17:59	5
Manganese	440		150	33	ug/L		04/11/13 13:35	04/17/13 18:39	10
Manganese	430		75	17	ug/L		04/11/13 13:35	04/18/13 16:43	5
Manganese	430		150	33	ug/L		04/11/13 13:35	04/18/13 17:23	10
Manganese	410		75	17	ug/L		04/11/13 13:35	04/19/13 17:52	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 17:59	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/17/13 18:39	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:43	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/18/13 17:23	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 17:52	5
Potassium	16000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 17:59	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/17/13 18:39	10
Potassium	17000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:43	5
Potassium	ND		50000	17000	ug/L		04/11/13 13:35	04/18/13 17:23	10
Potassium	16000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 17:52	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 17:59	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/17/13 18:39	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:43	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/18/13 17:23	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 17:52	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 17:59	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/17/13 18:39	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:43	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/18/13 17:23	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 17:52	5
Sodium	220000		5000	1600	ug/L		04/11/13 13:35	04/17/13 17:59	5
Sodium	220000		10000	3200	ug/L		04/11/13 13:35	04/17/13 18:39	10
Sodium	230000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:43	5
Sodium	220000		10000	3200	ug/L		04/11/13 13:35	04/18/13 17:23	10
Sodium	210000		5000	1600	ug/L		04/11/13 13:35	04/19/13 17:52	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 17:59	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/17/13 18:39	10

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-93**Lab Sample ID: 160-2044-16**

Date Collected: 04/09/13 14:38

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:43	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/18/13 17:23	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 17:52	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 17:59	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/17/13 18:39	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:43	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/18/13 17:23	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 17:52	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 17:59	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/17/13 18:39	10
Zinc	28 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:43	5
Zinc	52 J		200	52	ug/L		04/11/13 13:35	04/18/13 17:23	10
Zinc	29 J		100	26	ug/L		04/11/13 13:35	04/19/13 17:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:03	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065 J		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L			04/11/13 04:18	1
Bromide	4.4		0.25	0.025	mg/L			04/11/13 04:18	1
Sulfate	8.5		0.50	0.050	mg/L			04/11/13 04:18	1
Iodide	0.37 J		1.0	0.10	mg/L			04/15/13 23:41	1
Alkalinity	210		5.0	0.54	mg/L			04/12/13 12:28	1

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		40	4.0	mg/L			04/11/13 09:27	200

Client Sample ID: PZ-111-KS**Lab Sample ID: 160-2044-17**

Date Collected: 04/09/13 15:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 17:19	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 17:19	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 17:19	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 17:19	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 17:19	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 17:19	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 17:19	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 17:19	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 17:19	1
1,2-Dichloropropene	ND		5.0	0.32	ug/L			04/11/13 17:19	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 17:19	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-111-KS**Lab Sample ID: 160-2044-17**

Date Collected: 04/09/13 15:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L		04/11/13 17:19		1
2-Butanone (MEK)	ND		20	0.39	ug/L		04/11/13 17:19		1
2-Hexanone	ND		20	0.59	ug/L		04/11/13 17:19		1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L		04/11/13 17:19		1
Acetone	ND		20	6.7	ug/L		04/11/13 17:19		1
Benzene	ND		5.0	0.25	ug/L		04/11/13 17:19		1
Bromodichloromethane	ND		5.0	0.25	ug/L		04/11/13 17:19		1
Bromoform	ND		5.0	0.37	ug/L		04/11/13 17:19		1
Bromomethane	ND		10	0.40	ug/L		04/11/13 17:19		1
Carbon disulfide	ND		5.0	0.37	ug/L		04/11/13 17:19		1
Carbon tetrachloride	ND		5.0	0.36	ug/L		04/11/13 17:19		1
Chlorobenzene	ND		5.0	0.38	ug/L		04/11/13 17:19		1
Chloroethane	ND		10	0.38	ug/L		04/11/13 17:19		1
Chloroform	ND		5.0	0.15	ug/L		04/11/13 17:19		1
Chloromethane	ND		10	0.55	ug/L		04/11/13 17:19		1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L		04/11/13 17:19		1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L		04/11/13 17:19		1
Cyclohexane	ND		10	0.36	ug/L		04/11/13 17:19		1
Dibromochloromethane	ND		5.0	0.33	ug/L		04/11/13 17:19		1
Dichlorodifluoromethane	ND		10	0.45	ug/L		04/11/13 17:19		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/11/13 17:19		1
Ethylbenzene	ND *		5.0	0.30	ug/L		04/11/13 17:19		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 17:19		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 17:19		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 17:19		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 17:19		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 17:19		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 17:19		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 17:19		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 17:19		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 17:19		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 17:19		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 17:19		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 17:19		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 17:19		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 17:19		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 17:19		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 17:19		1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		82 - 132		04/11/13 17:19	1
4-Bromofluorobenzene (Surr)	82		82 - 121		04/11/13 17:19	1
Dibromofluoromethane (Surr)	95		85 - 119		04/11/13 17:19	1
Toluene-d8 (Surr)	88		85 - 115		04/11/13 17:19	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1500		1000	400	ug/L		04/11/13 13:32	04/15/13 18:16	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:16	5
Arsenic	13	J	50	9.9	ug/L		04/11/13 13:32	04/15/13 18:16	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-111-KS**Lab Sample ID: 160-2044-17**

Date Collected: 04/09/13 15:35

Matrix: Water

Date Received: 04/10/13 08:33

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Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:16	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:16	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:16	5
Calcium	10000		5000	530	ug/L		04/11/13 13:32	04/15/13 18:16	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 18:16	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:16	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:16	5
Iron	700		500	140	ug/L		04/11/13 13:32	04/15/13 18:16	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:16	5
Magnesium	6700		5000	660	ug/L		04/11/13 13:32	04/15/13 18:16	5
Manganese	ND		75	17	ug/L		04/11/13 13:32	04/15/13 18:16	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 18:16	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:32	04/15/13 18:16	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:16	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:16	5
Sodium	400000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:16	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:16	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:16	5
Zinc	42	J B	100	26	ug/L		04/11/13 13:32	04/15/13 18:16	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 18:10	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:54	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 18:03	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 18:10	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:54	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 18:03	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 18:10	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:54	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 18:03	5
Barium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:10	5
Barium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:54	5
Barium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:03	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 18:10	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:54	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 18:03	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 18:10	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:54	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 18:03	5
Calcium	9900		5000	530	ug/L		04/11/13 13:35	04/17/13 18:10	5
Calcium	10000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:54	5
Calcium	9900		5000	530	ug/L		04/11/13 13:35	04/19/13 18:03	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 18:10	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:54	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 18:03	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:10	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:54	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:03	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 18:10	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: PZ-111-KS**Lab Sample ID: 160-2044-17**

Date Collected: 04/09/13 15:35

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:54	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 18:03	5
Iron	180 J		500	140	ug/L		04/11/13 13:35	04/17/13 18:10	5
Iron	180 J		500	140	ug/L		04/11/13 13:35	04/18/13 16:54	5
Iron	170 J		500	140	ug/L		04/11/13 13:35	04/19/13 18:03	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 18:10	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:54	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 18:03	5
Magnesium	6600		5000	660	ug/L		04/11/13 13:35	04/17/13 18:10	5
Magnesium	6500		5000	660	ug/L		04/11/13 13:35	04/18/13 16:54	5
Magnesium	6400		5000	660	ug/L		04/11/13 13:35	04/19/13 18:03	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/17/13 18:10	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/18/13 16:54	5
Manganese	ND		75	17	ug/L		04/11/13 13:35	04/19/13 18:03	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 18:10	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:54	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 18:03	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/17/13 18:10	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:54	5
Potassium	ND		25000	8300	ug/L		04/11/13 13:35	04/19/13 18:03	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 18:10	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:54	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 18:03	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 18:10	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:54	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 18:03	5
Sodium	410000		5000	1600	ug/L		04/11/13 13:35	04/17/13 18:10	5
Sodium	410000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:54	5
Sodium	390000		5000	1600	ug/L		04/11/13 13:35	04/19/13 18:03	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:10	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:54	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 18:03	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:10	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:54	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:03	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 18:10	5
Zinc	30 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:54	5
Zinc	31 J		100	26	ug/L		04/11/13 13:35	04/19/13 18:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0074	J	0.020	0.0040	mg/L		04/11/13 05:20		1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Client Sample ID: PZ-111-KS
Lab Sample ID: 160-2044-17
Matrix: Water

Date Collected: 04/09/13 15:35
Date Received: 04/10/13 08:33

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.52		0.25	0.025	mg/L			04/11/13 05:20	1
Iodide	ND		1.0	0.10	mg/L			04/16/13 00:24	1
Alkalinity	610		5.0	0.54	mg/L			04/17/13 13:12	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	71		10	1.0	mg/L			04/11/13 05:35	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		40	4.0	mg/L			04/11/13 09:42	200

Client Sample ID: D-6
Lab Sample ID: 160-2044-18
Matrix: Water

Date Collected: 04/09/13 15:45
Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 17:44	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 17:44	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 17:44	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 17:44	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 17:44	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 17:44	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 17:44	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 17:44	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 17:44	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 17:44	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 17:44	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 17:44	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 17:44	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 17:44	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 17:44	1
Acetone	ND		20	6.7	ug/L			04/11/13 17:44	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 17:44	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 17:44	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 17:44	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 17:44	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 17:44	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 17:44	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 17:44	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 17:44	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 17:44	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 17:44	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 17:44	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 17:44	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 17:44	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 17:44	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 17:44	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 17:44	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-6**Lab Sample ID: 160-2044-18**

Date Collected: 04/09/13 15:45

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND *		5.0	0.30	ug/L		04/11/13 17:44		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 17:44		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 17:44		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 17:44		1
Methyl tert-butyl ether	6.2		5.0	0.40	ug/L		04/11/13 17:44		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 17:44		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 17:44		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 17:44		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 17:44		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 17:44		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 17:44		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 17:44		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 17:44		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 17:44		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 17:44		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 17:44		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 17:44		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		82 - 132		04/11/13 17:44	1
4-Bromofluorobenzene (Surr)	82		82 - 121		04/11/13 17:44	1
Dibromofluoromethane (Surr)	97		85 - 119		04/11/13 17:44	1
Toluene-d8 (Surr)	87		85 - 115		04/11/13 17:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	740	J	1000	400	ug/L		04/11/13 13:32	04/15/13 18:20	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:20	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 18:20	5
Barium	1300		250	20	ug/L		04/11/13 13:32	04/15/13 18:20	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:20	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:20	5
Calcium	230000		5000	530	ug/L		04/11/13 13:32	04/15/13 18:20	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 18:20	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:20	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:20	5
Iron	18000		500	140	ug/L		04/11/13 13:32	04/15/13 18:20	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:20	5
Magnesium	61000		5000	660	ug/L		04/11/13 13:32	04/15/13 18:20	5
Manganese	610		75	17	ug/L		04/11/13 13:32	04/15/13 18:20	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 18:20	5
Potassium	13000	J	25000	8300	ug/L		04/11/13 13:32	04/15/13 18:20	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:20	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:20	5
Sodium	140000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:20	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:20	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:20	5
Zinc	31	J B	100	26	ug/L		04/11/13 13:32	04/15/13 18:20	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-6**Lab Sample ID: 160-2044-18**

Date Collected: 04/09/13 15:45

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 18:13	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 16:57	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 18:07	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 18:13	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 16:57	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 18:07	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 18:13	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 16:57	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 18:07	5
Barium	1300		250	20	ug/L		04/11/13 13:35	04/17/13 18:13	5
Barium	1300		250	20	ug/L		04/11/13 13:35	04/18/13 16:57	5
Barium	1300		250	20	ug/L		04/11/13 13:35	04/19/13 18:07	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 18:13	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 16:57	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 18:07	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 18:13	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 16:57	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 18:07	5
Calcium	240000		5000	530	ug/L		04/11/13 13:35	04/17/13 18:13	5
Calcium	250000		5000	530	ug/L		04/11/13 13:35	04/18/13 16:57	5
Calcium	240000		5000	530	ug/L		04/11/13 13:35	04/19/13 18:07	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 18:13	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 16:57	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 18:07	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:13	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 16:57	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:07	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 18:13	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 16:57	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 18:07	5
Iron	17000		500	140	ug/L		04/11/13 13:35	04/17/13 18:13	5
Iron	18000		500	140	ug/L		04/11/13 13:35	04/18/13 16:57	5
Iron	18000		500	140	ug/L		04/11/13 13:35	04/19/13 18:07	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 18:13	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 16:57	5
Lead	12 J		50	7.5	ug/L		04/11/13 13:35	04/19/13 18:07	5
Magnesium	63000		5000	660	ug/L		04/11/13 13:35	04/17/13 18:13	5
Magnesium	63000		5000	660	ug/L		04/11/13 13:35	04/18/13 16:57	5
Magnesium	61000		5000	660	ug/L		04/11/13 13:35	04/19/13 18:07	5
Manganese	600		75	17	ug/L		04/11/13 13:35	04/17/13 18:13	5
Manganese	590		75	17	ug/L		04/11/13 13:35	04/18/13 16:57	5
Manganese	570		75	17	ug/L		04/11/13 13:35	04/19/13 18:07	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 18:13	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 16:57	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 18:07	5
Potassium	13000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 18:13	5
Potassium	14000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 16:57	5
Potassium	13000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 18:07	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 18:13	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-6**Lab Sample ID: 160-2044-18**

Date Collected: 04/09/13 15:45

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 16:57	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 18:07	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 18:13	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 16:57	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 18:07	5
Sodium	140000		5000	1600	ug/L		04/11/13 13:35	04/17/13 18:13	5
Sodium	150000		5000	1600	ug/L		04/11/13 13:35	04/18/13 16:57	5
Sodium	140000		5000	1600	ug/L		04/11/13 13:35	04/19/13 18:07	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:13	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 16:57	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 18:07	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:13	5
Vanadium	20 J		250	20	ug/L		04/11/13 13:35	04/18/13 16:57	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:07	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 18:13	5
Zinc	26 J		100	26	ug/L		04/11/13 13:35	04/18/13 16:57	5
Zinc	29 J		100	26	ug/L		04/11/13 13:35	04/19/13 18:07	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066	J	0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.020	0.0040	mg/L			04/11/13 05:51	1
Bromide	2.2		0.25	0.025	mg/L			04/11/13 05:51	1
Sulfate	9.9		0.50	0.050	mg/L			04/11/13 05:51	1
Iodide	0.20	J	1.0	0.10	mg/L			04/16/13 00:38	1
Alkalinity	610		5.0	0.54	mg/L			04/17/13 13:12	1

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		40	4.0	mg/L			04/11/13 09:57	200

Client Sample ID: D-83**Lab Sample ID: 160-2044-19**

Date Collected: 04/09/13 16:16

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 18:08	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 18:08	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 18:08	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 18:08	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 18:08	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 18:08	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 18:08	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-83**Lab Sample ID: 160-2044-19**

Date Collected: 04/09/13 16:16

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L		04/11/13 18:08		1
1,2-Dichloroethane	ND		5.0	0.37	ug/L		04/11/13 18:08		1
1,2-Dichloropropane	ND		5.0	0.32	ug/L		04/11/13 18:08		1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L		04/11/13 18:08		1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L		04/11/13 18:08		1
2-Butanone (MEK)	ND		20	0.39	ug/L		04/11/13 18:08		1
2-Hexanone	ND		20	0.59	ug/L		04/11/13 18:08		1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L		04/11/13 18:08		1
Acetone	ND		20	6.7	ug/L		04/11/13 18:08		1
Benzene	ND		5.0	0.25	ug/L		04/11/13 18:08		1
Bromodichloromethane	ND		5.0	0.25	ug/L		04/11/13 18:08		1
Bromoform	ND		5.0	0.37	ug/L		04/11/13 18:08		1
Bromomethane	ND		10	0.40	ug/L		04/11/13 18:08		1
Carbon disulfide	ND		5.0	0.37	ug/L		04/11/13 18:08		1
Carbon tetrachloride	ND		5.0	0.36	ug/L		04/11/13 18:08		1
Chlorobenzene	0.76 J		5.0	0.38	ug/L		04/11/13 18:08		1
Chloroethane	ND		10	0.38	ug/L		04/11/13 18:08		1
Chloroform	ND		5.0	0.15	ug/L		04/11/13 18:08		1
Chloromethane	ND		10	0.55	ug/L		04/11/13 18:08		1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L		04/11/13 18:08		1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L		04/11/13 18:08		1
Cyclohexane	ND		10	0.36	ug/L		04/11/13 18:08		1
Dibromochloromethane	ND		5.0	0.33	ug/L		04/11/13 18:08		1
Dichlorodifluoromethane	ND		10	0.45	ug/L		04/11/13 18:08		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/11/13 18:08		1
Ethylbenzene	ND *		5.0	0.30	ug/L		04/11/13 18:08		1
1,2-Dibromoethane	ND		5.0	0.44	ug/L		04/11/13 18:08		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 18:08		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 18:08		1
Methyl tert-butyl ether	1.1 J		5.0	0.40	ug/L		04/11/13 18:08		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 18:08		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 18:08		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 18:08		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 18:08		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 18:08		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 18:08		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 18:08		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 18:08		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 18:08		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 18:08		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 18:08		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 18:08		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		82 - 132		04/11/13 18:08	1
4-Bromofluorobenzene (Surr)	84		82 - 121		04/11/13 18:08	1
Dibromofluoromethane (Surr)	98		85 - 119		04/11/13 18:08	1
Toluene-d8 (Surr)	91		85 - 115		04/11/13 18:08	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-83**Lab Sample ID: 160-2044-19**

Date Collected: 04/09/13 16:16

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:32	04/15/13 18:23	5
Antimony	ND		50	20	ug/L		04/11/13 13:32	04/15/13 18:23	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:32	04/15/13 18:23	5
Barium	1800		250	20	ug/L		04/11/13 13:32	04/15/13 18:23	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:32	04/15/13 18:23	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 18:23	5
Calcium	110000		5000	530	ug/L		04/11/13 13:32	04/15/13 18:23	5
Chromium	ND		50	16	ug/L		04/11/13 13:32	04/15/13 18:23	5
Cobalt	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:23	5
Copper	ND		130	23	ug/L		04/11/13 13:32	04/15/13 18:23	5
Iron	15000		500	140	ug/L		04/11/13 13:32	04/15/13 18:23	5
Lead	ND		50	7.5	ug/L		04/11/13 13:32	04/15/13 18:23	5
Magnesium	35000		5000	660	ug/L		04/11/13 13:32	04/15/13 18:23	5
Manganese	350		75	17	ug/L		04/11/13 13:32	04/15/13 18:23	5
Nickel	ND		200	67	ug/L		04/11/13 13:32	04/15/13 18:23	5
Potassium	41000		25000	8300	ug/L		04/11/13 13:32	04/15/13 18:23	5
Selenium	ND		75	13	ug/L		04/11/13 13:32	04/15/13 18:23	5
Silver	ND		50	30	ug/L		04/11/13 13:32	04/15/13 18:23	5
Sodium	76000		5000	1600	ug/L		04/11/13 13:32	04/15/13 18:23	5
Thallium	ND		100	20	ug/L		04/11/13 13:32	04/15/13 18:23	5
Vanadium	ND		250	20	ug/L		04/11/13 13:32	04/15/13 18:23	5
Zinc	35 J B		100	26	ug/L		04/11/13 13:32	04/15/13 18:23	5

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 18:17	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 17:01	5
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 18:10	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 18:17	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 17:01	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 18:10	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/17/13 18:17	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/18/13 17:01	5
Arsenic	ND		50	9.9	ug/L		04/11/13 13:35	04/19/13 18:10	5
Barium	1900		250	20	ug/L		04/11/13 13:35	04/17/13 18:17	5
Barium	1900		250	20	ug/L		04/11/13 13:35	04/18/13 17:01	5
Barium	1900		250	20	ug/L		04/11/13 13:35	04/19/13 18:10	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 18:17	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 17:01	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 18:10	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 18:17	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 17:01	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 18:10	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/17/13 18:17	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/18/13 17:01	5
Calcium	120000		5000	530	ug/L		04/11/13 13:35	04/19/13 18:10	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 18:17	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 17:01	5
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 18:10	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:17	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-83**Lab Sample ID: 160-2044-19**

Date Collected: 04/09/13 16:16

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 17:01	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:10	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 18:17	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 17:01	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 18:10	5
Iron	16000		500	140	ug/L		04/11/13 13:35	04/17/13 18:17	5
Iron	17000		500	140	ug/L		04/11/13 13:35	04/18/13 17:01	5
Iron	16000		500	140	ug/L		04/11/13 13:35	04/19/13 18:10	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/17/13 18:17	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 17:01	5
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/19/13 18:10	5
Magnesium	38000		5000	660	ug/L		04/11/13 13:35	04/17/13 18:17	5
Magnesium	37000		5000	660	ug/L		04/11/13 13:35	04/18/13 17:01	5
Magnesium	37000		5000	660	ug/L		04/11/13 13:35	04/19/13 18:10	5
Manganese	390		75	17	ug/L		04/11/13 13:35	04/17/13 18:17	5
Manganese	380		75	17	ug/L		04/11/13 13:35	04/18/13 17:01	5
Manganese	370		75	17	ug/L		04/11/13 13:35	04/19/13 18:10	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 18:17	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 17:01	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 18:10	5
Potassium	43000		25000	8300	ug/L		04/11/13 13:35	04/17/13 18:17	5
Potassium	45000		25000	8300	ug/L		04/11/13 13:35	04/18/13 17:01	5
Potassium	43000		25000	8300	ug/L		04/11/13 13:35	04/19/13 18:10	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 18:17	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 17:01	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 18:10	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 18:17	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 17:01	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 18:10	5
Sodium	87000		5000	1600	ug/L		04/11/13 13:35	04/17/13 18:17	5
Sodium	87000		5000	1600	ug/L		04/11/13 13:35	04/18/13 17:01	5
Sodium	85000		5000	1600	ug/L		04/11/13 13:35	04/19/13 18:10	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:17	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:01	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 18:10	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:17	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/18/13 17:01	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:10	5
Zinc	27 J		100	26	ug/L		04/11/13 13:35	04/17/13 18:17	5
Zinc	28 J		100	26	ug/L		04/11/13 13:35	04/18/13 17:01	5
Zinc	32 J		100	26	ug/L		04/11/13 13:35	04/19/13 18:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:12	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:13	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: D-83**Lab Sample ID: 160-2044-19**

Date Collected: 04/09/13 16:16

Matrix: Water

Date Received: 04/10/13 08:33

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.043		0.020	0.0040	mg/L			04/11/13 06:22	1
Bromide	1.1		0.25	0.025	mg/L			04/11/13 06:22	1
Sulfate	13		0.50	0.050	mg/L			04/11/13 06:22	1
Iodide	ND		1.0	0.10	mg/L			04/16/13 00:53	1
Alkalinity	730		5.0	0.54	mg/L			04/17/13 13:12	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		4.0	0.40	mg/L			04/11/13 06:37	20

Client Sample ID: DUP05**Lab Sample ID: 160-2044-20**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 13:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 13:45	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 13:45	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 13:45	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 13:45	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 13:45	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 13:45	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 13:45	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 13:45	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 13:45	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 13:45	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 13:45	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 13:45	1
2-Hexanone	ND *		20	0.59	ug/L			04/11/13 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 13:45	1
Acetone	ND		20	6.7	ug/L			04/11/13 13:45	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 13:45	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 13:45	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 13:45	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 13:45	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 13:45	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 13:45	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 13:45	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 13:45	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 13:45	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 13:45	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 13:45	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 13:45	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 13:45	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 13:45	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 13:45	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 13:45	1
Ethylbenzene	ND		5.0	0.30	ug/L			04/11/13 13:45	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 13:45	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: DUP05**Lab Sample ID: 160-2044-20**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 13:45	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 13:45	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 13:45	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 13:45	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 13:45	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 13:45	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 13:45	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 13:45	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 13:45	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 13:45	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 13:45	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 13:45	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 13:45	1
Vinyl chloride	2.4 J		5.0	0.43	ug/L			04/11/13 13:45	1
Xylenes, Total	ND		10	0.85	ug/L			04/11/13 13:45	1
Surrogate				%Recovery		Qualifier		Limits	
1,2-Dichloroethane-d4 (Surr)	104			82 - 132					
4-Bromofluorobenzene (Surr)	96			82 - 121					
Dibromofluoromethane (Surr)	102			85 - 119					
Toluene-d8 (Surr)	95			85 - 115					
							Prepared	Analyzed	Dil Fac
								04/11/13 13:45	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L			04/15/13 18:27	5
Antimony	ND		50	20	ug/L			04/15/13 18:27	5
Arsenic	24 J		50	9.9	ug/L			04/15/13 18:27	5
Barium	1400		250	20	ug/L			04/15/13 18:27	5
Beryllium	ND		25	3.1	ug/L			04/15/13 18:27	5
Cadmium	ND		25	4.6	ug/L			04/15/13 18:27	5
Calcium	260000 E		5000	530	ug/L			04/15/13 18:27	5
Calcium	270000		10000	1100	ug/L			04/17/13 15:22	10
Chromium	ND		50	16	ug/L			04/15/13 18:27	5
Cobalt	ND		250	20	ug/L			04/15/13 18:27	5
Copper	ND		130	23	ug/L			04/15/13 18:27	5
Iron	34000		500	140	ug/L			04/15/13 18:27	5
Lead	ND		50	7.5	ug/L			04/15/13 18:27	5
Magnesium	71000		5000	660	ug/L			04/15/13 18:27	5
Manganese	1100		75	17	ug/L			04/15/13 18:27	5
Nickel	ND		200	67	ug/L			04/15/13 18:27	5
Potassium	20000 J		25000	8300	ug/L			04/15/13 18:27	5
Selenium	ND		75	13	ug/L			04/15/13 18:27	5
Silver	ND		50	30	ug/L			04/15/13 18:27	5
Sodium	240000		5000	1600	ug/L			04/15/13 18:27	5
Thallium	ND		100	20	ug/L			04/15/13 18:27	5
Vanadium	ND		250	20	ug/L			04/15/13 18:27	5
Zinc	27 J B		100	26	ug/L			04/15/13 18:27	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: DUP05**Lab Sample ID: 160-2044-20**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/17/13 18:21	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/17/13 18:43	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/18/13 17:05	5
Aluminum	ND		2000	800	ug/L		04/11/13 13:35	04/18/13 17:27	10
Aluminum	ND		1000	400	ug/L		04/11/13 13:35	04/19/13 18:14	5
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/17/13 18:21	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/17/13 18:43	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/18/13 17:05	5
Antimony	ND		100	40	ug/L		04/11/13 13:35	04/18/13 17:27	10
Antimony	ND		50	20	ug/L		04/11/13 13:35	04/19/13 18:14	5
Arsenic	32 J		50	9.9	ug/L		04/11/13 13:35	04/17/13 18:21	5
Arsenic	30 J		100	20	ug/L		04/11/13 13:35	04/17/13 18:43	10
Arsenic	28 J		50	9.9	ug/L		04/11/13 13:35	04/18/13 17:05	5
Arsenic	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:27	10
Arsenic	24 J		50	9.9	ug/L		04/11/13 13:35	04/19/13 18:14	5
Barium	1500		250	20	ug/L		04/11/13 13:35	04/17/13 18:21	5
Barium	1500		500	40	ug/L		04/11/13 13:35	04/17/13 18:43	10
Barium	1500		250	20	ug/L		04/11/13 13:35	04/18/13 17:05	5
Barium	1500		500	40	ug/L		04/11/13 13:35	04/18/13 17:27	10
Barium	1500		250	20	ug/L		04/11/13 13:35	04/19/13 18:14	5
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/17/13 18:21	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/17/13 18:43	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/18/13 17:05	5
Beryllium	ND		50	6.1	ug/L		04/11/13 13:35	04/18/13 17:27	10
Beryllium	ND		25	3.1	ug/L		04/11/13 13:35	04/19/13 18:14	5
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 18:21	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/17/13 18:43	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/18/13 17:05	5
Cadmium	ND		50	9.1	ug/L		04/11/13 13:35	04/18/13 17:27	10
Cadmium	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 18:14	5
Calcium	280000 E		5000	530	ug/L		04/11/13 13:35	04/17/13 18:21	5
Calcium	280000		10000	1100	ug/L		04/11/13 13:35	04/17/13 18:43	10
Calcium	290000 E		5000	530	ug/L		04/11/13 13:35	04/18/13 17:05	5
Calcium	300000		10000	1100	ug/L		04/11/13 13:35	04/18/13 17:27	10
Calcium	290000		10000	1100	ug/L		04/11/13 13:35	04/19/13 18:36	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/17/13 18:21	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/17/13 18:43	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/18/13 17:05	5
Chromium	ND		100	31	ug/L		04/11/13 13:35	04/18/13 17:27	10
Chromium	ND		50	16	ug/L		04/11/13 13:35	04/19/13 18:14	5
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:21	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/17/13 18:43	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/18/13 17:05	5
Cobalt	ND		500	40	ug/L		04/11/13 13:35	04/18/13 17:27	10
Cobalt	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:14	5
Copper	ND		130	23	ug/L		04/11/13 13:35	04/17/13 18:21	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/17/13 18:43	10
Copper	ND		130	23	ug/L		04/11/13 13:35	04/18/13 17:05	5
Copper	ND		250	46	ug/L		04/11/13 13:35	04/18/13 17:27	10

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: DUP05**Lab Sample ID: 160-2044-20**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	23	ug/L		04/11/13 13:35	04/19/13 18:14	5
Iron	35000		500	140	ug/L		04/11/13 13:35	04/17/13 18:21	5
Iron	35000		1000	280	ug/L		04/11/13 13:35	04/17/13 18:43	10
Iron	37000		500	140	ug/L		04/11/13 13:35	04/18/13 17:05	5
Iron	37000		1000	280	ug/L		04/11/13 13:35	04/18/13 17:27	10
Iron	35000		500	140	ug/L		04/11/13 13:35	04/19/13 18:14	5
Lead	9.0 J		50	7.5	ug/L		04/11/13 13:35	04/17/13 18:21	5
Lead	ND		100	15	ug/L		04/11/13 13:35	04/17/13 18:43	10
Lead	ND		50	7.5	ug/L		04/11/13 13:35	04/18/13 17:05	5
Lead	19 J		100	15	ug/L		04/11/13 13:35	04/18/13 17:27	10
Lead	9.5 J		50	7.5	ug/L		04/11/13 13:35	04/19/13 18:14	5
Magnesium	77000		5000	660	ug/L		04/11/13 13:35	04/17/13 18:21	5
Magnesium	77000		10000	1300	ug/L		04/11/13 13:35	04/17/13 18:43	10
Magnesium	76000		5000	660	ug/L		04/11/13 13:35	04/18/13 17:05	5
Magnesium	77000		10000	1300	ug/L		04/11/13 13:35	04/18/13 17:27	10
Magnesium	72000		5000	660	ug/L		04/11/13 13:35	04/19/13 18:14	5
Manganese	1200		75	17	ug/L		04/11/13 13:35	04/17/13 18:21	5
Manganese	1300		150	33	ug/L		04/11/13 13:35	04/17/13 18:43	10
Manganese	1200		75	17	ug/L		04/11/13 13:35	04/18/13 17:05	5
Manganese	1200		150	33	ug/L		04/11/13 13:35	04/18/13 17:27	10
Manganese	1100		75	17	ug/L		04/11/13 13:35	04/19/13 18:14	5
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/17/13 18:21	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/17/13 18:43	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/18/13 17:05	5
Nickel	ND		400	130	ug/L		04/11/13 13:35	04/18/13 17:27	10
Nickel	ND		200	67	ug/L		04/11/13 13:35	04/19/13 18:14	5
Potassium	21000 J		25000	8300	ug/L		04/11/13 13:35	04/17/13 18:21	5
Potassium	21000 J		50000	17000	ug/L		04/11/13 13:35	04/17/13 18:43	10
Potassium	21000 J		25000	8300	ug/L		04/11/13 13:35	04/18/13 17:05	5
Potassium	21000 J		50000	17000	ug/L		04/11/13 13:35	04/18/13 17:27	10
Potassium	20000 J		25000	8300	ug/L		04/11/13 13:35	04/19/13 18:14	5
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/17/13 18:21	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/17/13 18:43	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/18/13 17:05	5
Selenium	ND		150	27	ug/L		04/11/13 13:35	04/18/13 17:27	10
Selenium	ND		75	13	ug/L		04/11/13 13:35	04/19/13 18:14	5
Silver	ND		50	30	ug/L		04/11/13 13:35	04/17/13 18:21	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/17/13 18:43	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/18/13 17:05	5
Silver	ND		100	60	ug/L		04/11/13 13:35	04/18/13 17:27	10
Silver	ND		50	30	ug/L		04/11/13 13:35	04/19/13 18:14	5
Sodium	260000		5000	1600	ug/L		04/11/13 13:35	04/17/13 18:21	5
Sodium	260000		10000	3200	ug/L		04/11/13 13:35	04/17/13 18:43	10
Sodium	260000		5000	1600	ug/L		04/11/13 13:35	04/18/13 17:05	5
Sodium	260000		10000	3200	ug/L		04/11/13 13:35	04/18/13 17:27	10
Sodium	250000		5000	1600	ug/L		04/11/13 13:35	04/19/13 18:14	5
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/17/13 18:21	5
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/17/13 18:43	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/18/13 17:05	5

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: DUP05**Lab Sample ID: 160-2044-20**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		200	40	ug/L		04/11/13 13:35	04/18/13 17:27	10
Thallium	ND		100	20	ug/L		04/11/13 13:35	04/19/13 18:14	5
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/17/13 18:21	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/17/13 18:43	10
Vanadium	22 J		250	20	ug/L		04/11/13 13:35	04/18/13 17:05	5
Vanadium	ND		500	41	ug/L		04/11/13 13:35	04/18/13 17:27	10
Vanadium	ND		250	20	ug/L		04/11/13 13:35	04/19/13 18:14	5
Zinc	ND		100	26	ug/L		04/11/13 13:35	04/17/13 18:21	5
Zinc	ND		200	52	ug/L		04/11/13 13:35	04/17/13 18:43	10
Zinc	31 J		100	26	ug/L		04/11/13 13:35	04/18/13 17:05	5
Zinc	69 J		200	52	ug/L		04/11/13 13:35	04/18/13 17:27	10
Zinc	37 J		100	26	ug/L		04/11/13 13:35	04/19/13 18:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 17:13	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.064	J	0.20	0.060	ug/L		04/22/13 10:45	04/22/13 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	4.0		0.25	0.025	mg/L			04/10/13 23:10	1
Sulfate	0.31 J		0.50	0.050	mg/L			04/10/13 23:10	1
Iodide	0.40 J		1.0	0.10	mg/L			04/16/13 01:07	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.1		0.40	0.080	mg/L			04/10/13 23:25	20
Alkalinity	1000		25	2.7	mg/L			04/17/13 13:12	5

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		40	4.0	mg/L			04/11/13 07:39	200

Client Sample ID: TRIP BLANK**Lab Sample ID: 160-2044-21**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 13:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 13:20	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 13:20	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 13:20	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 13:20	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 13:20	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 13:20	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 13:20	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 13:20	1

TestAmerica St. Louis

Client Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Client Sample ID: TRIP BLANK**Lab Sample ID: 160-2044-21**

Date Collected: 04/09/13 00:00

Matrix: Water

Date Received: 04/10/13 08:33

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		5.0	0.37	ug/L		04/11/13 13:20		1
1,2-Dichloropropane	ND		5.0	0.32	ug/L		04/11/13 13:20		1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L		04/11/13 13:20		1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L		04/11/13 13:20		1
2-Butanone (MEK)	ND		20	0.39	ug/L		04/11/13 13:20		1
2-Hexanone	ND *		20	0.59	ug/L		04/11/13 13:20		1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L		04/11/13 13:20		1
Acetone	ND		20	6.7	ug/L		04/11/13 13:20		1
Benzene	ND		5.0	0.25	ug/L		04/11/13 13:20		1
Bromodichloromethane	ND		5.0	0.25	ug/L		04/11/13 13:20		1
Bromoform	ND		5.0	0.37	ug/L		04/11/13 13:20		1
Bromomethane	ND		10	0.40	ug/L		04/11/13 13:20		1
Carbon disulfide	ND		5.0	0.37	ug/L		04/11/13 13:20		1
Carbon tetrachloride	ND		5.0	0.36	ug/L		04/11/13 13:20		1
Chlorobenzene	ND		5.0	0.38	ug/L		04/11/13 13:20		1
Chloroethane	ND		10	0.38	ug/L		04/11/13 13:20		1
Chloroform	ND		5.0	0.15	ug/L		04/11/13 13:20		1
Chloromethane	ND		10	0.55	ug/L		04/11/13 13:20		1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L		04/11/13 13:20		1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L		04/11/13 13:20		1
Cyclohexane	ND		10	0.36	ug/L		04/11/13 13:20		1
Dibromochloromethane	ND		5.0	0.33	ug/L		04/11/13 13:20		1
Dichlorodifluoromethane	ND		10	0.45	ug/L		04/11/13 13:20		1
Ethylbenzene	ND		5.0	0.30	ug/L		04/11/13 13:20		1
Isopropylbenzene	ND		5.0	0.26	ug/L		04/11/13 13:20		1
Methyl acetate	ND		5.0	2.3	ug/L		04/11/13 13:20		1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L		04/11/13 13:20		1
Methylcyclohexane	ND		10	0.26	ug/L		04/11/13 13:20		1
Methylene Chloride	ND		5.0	1.7	ug/L		04/11/13 13:20		1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L		04/11/13 13:20		1
o-Xylene	ND		5.0	0.32	ug/L		04/11/13 13:20		1
Styrene	ND		5.0	0.35	ug/L		04/11/13 13:20		1
Tetrachloroethene	ND		5.0	0.28	ug/L		04/11/13 13:20		1
Toluene	ND		5.0	1.0	ug/L		04/11/13 13:20		1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L		04/11/13 13:20		1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L		04/11/13 13:20		1
Trichloroethene	ND		5.0	0.29	ug/L		04/11/13 13:20		1
Trichlorofluoromethane	ND		5.0	0.22	ug/L		04/11/13 13:20		1
Vinyl chloride	ND		5.0	0.43	ug/L		04/11/13 13:20		1
Xylenes, Total	ND		10	0.85	ug/L		04/11/13 13:20		1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95			82 - 121			04/11/13 13:20		1
Dibromofluoromethane (Surr)	104			85 - 119			04/11/13 13:20		1
1,2-Dichloroethane-d4 (Surr)	104			82 - 132			04/11/13 13:20		1
Toluene-d8 (Surr)	97			85 - 115			04/11/13 13:20		1

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS**Lab Sample ID: MB 160-45595/2****Matrix: Water****Analysis Batch: 45595****Client Sample ID: Method Blank****Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 12:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 12:55	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 12:55	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 12:55	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 12:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 12:55	1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 12:55	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 12:55	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 12:55	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 12:55	1
1,3-Dichlorobenzene	ND		5.0	0.23	ug/L			04/11/13 12:55	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			04/11/13 12:55	1
2-Butanone (MEK)	ND		20	0.39	ug/L			04/11/13 12:55	1
2-Hexanone	ND		20	0.59	ug/L			04/11/13 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			04/11/13 12:55	1
Acetone	ND		20	6.7	ug/L			04/11/13 12:55	1
Benzene	ND		5.0	0.25	ug/L			04/11/13 12:55	1
Bromodichloromethane	ND		5.0	0.25	ug/L			04/11/13 12:55	1
Bromoform	ND		5.0	0.37	ug/L			04/11/13 12:55	1
Bromomethane	ND		10	0.40	ug/L			04/11/13 12:55	1
Carbon disulfide	ND		5.0	0.37	ug/L			04/11/13 12:55	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			04/11/13 12:55	1
Chlorobenzene	ND		5.0	0.38	ug/L			04/11/13 12:55	1
Chloroethane	ND		10	0.38	ug/L			04/11/13 12:55	1
Chloroform	ND		5.0	0.15	ug/L			04/11/13 12:55	1
Chloromethane	ND		10	0.55	ug/L			04/11/13 12:55	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			04/11/13 12:55	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			04/11/13 12:55	1
Cyclohexane	ND		10	0.36	ug/L			04/11/13 12:55	1
Dibromochloromethane	ND		5.0	0.33	ug/L			04/11/13 12:55	1
Dichlorodifluoromethane	ND		10	0.45	ug/L			04/11/13 12:55	1
1,2-Dibromoethane	ND		5.0	0.44	ug/L			04/11/13 12:55	1
Ethylbenzene	ND		5.0	0.30	ug/L			04/11/13 12:55	1
Isopropylbenzene	ND		5.0	0.26	ug/L			04/11/13 12:55	1
Methyl acetate	ND		5.0	2.3	ug/L			04/11/13 12:55	1
Methyl tert-butyl ether	ND		5.0	0.40	ug/L			04/11/13 12:55	1
Methylcyclohexane	ND		10	0.26	ug/L			04/11/13 12:55	1
Methylene Chloride	ND		5.0	1.7	ug/L			04/11/13 12:55	1
m-Xylene & p-Xylene	ND		5.0	0.57	ug/L			04/11/13 12:55	1
o-Xylene	ND		5.0	0.32	ug/L			04/11/13 12:55	1
Styrene	ND		5.0	0.35	ug/L			04/11/13 12:55	1
Tetrachloroethene	ND		5.0	0.28	ug/L			04/11/13 12:55	1
Toluene	ND		5.0	1.0	ug/L			04/11/13 12:55	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			04/11/13 12:55	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			04/11/13 12:55	1
Trichloroethene	ND		5.0	0.29	ug/L			04/11/13 12:55	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			04/11/13 12:55	1
Vinyl chloride	ND		5.0	0.43	ug/L			04/11/13 12:55	1

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: MB 160-45595/2****Matrix: Water****Analysis Batch: 45595**
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND	10									
Xylenes, Total										04/11/13 12:55	1
Surrogate											
1,2-Dichloroethane-d4 (Surr)	101				82 - 132					04/11/13 12:55	1
4-Bromofluorobenzene (Surr)	100				82 - 121					04/11/13 12:55	1
Dibromofluoromethane (Surr)	95				85 - 119					04/11/13 12:55	1
Toluene-d8 (Surr)	99				85 - 115					04/11/13 12:55	1

Lab Sample ID: LCSD 160-45595/5**Matrix: Water****Analysis Batch: 45595**
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
		Result	Qualifier							
1,1,1,2-Tetrachloroethane	50.0	51.4		ug/L		103	85 - 115	5	20	
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	85 - 115	5	20	
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	84 - 115	7	20	
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	85 - 115	7	20	
1,1-Dichloroethane	50.0	52.1		ug/L		104	85 - 115	4	20	
1,1-Dichloroethene	50.0	48.4		ug/L		97	85 - 118	6	20	
1,1-Dichloropropene	50.0	50.3		ug/L		101	85 - 115	5	20	
1,2,3-Trichlorobenzene	50.0	49.7		ug/L		99	72 - 120	5	20	
1,2,3-Trichloropropane	50.0	48.1		ug/L		96	80 - 115	1	20	
1,2,4-Trichlorobenzene	50.0	49.8		ug/L		100	75 - 124	4	20	
1,2,4-Trimethylbenzene	50.0	53.6		ug/L		107	85 - 115	4	20	
1,2-Dibromo-3-chloropropane	50.0	48.0		ug/L		96	71 - 123	6	20	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	50.0	55.4		ug/L		111	47 - 130	7	20	
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	85 - 115	5	20	
1,2-Dichloroethane	50.0	49.5		ug/L		99	79 - 122	3	20	
1,2-Dichloroethene, Total	100	96.8		ug/L		97	85 - 115	4	20	
1,2-Dichloropropane	50.0	50.8		ug/L		102	85 - 115	3	20	
1,3,5-Trimethylbenzene	50.0	54.1		ug/L		108	85 - 117	4	20	
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	85 - 115	4	20	
1,3-Dichloropropane	50.0	52.6		ug/L		105	84 - 115	7	20	
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	85 - 115	5	20	
1,4-Dioxane	1000	1030		ug/L		103	26 - 141	8	20	
1-Butanol	500	483		ug/L		97	49 - 132	9	20	
2,2-Dichloropropane	50.0	57.0		ug/L		114	85 - 127	7	20	
2-Butanone (MEK)	50.0	49.1		ug/L		98	71 - 123	2	20	
2-Chloro-1,3-butadiene	50.0	52.2		ug/L		104	70 - 115	4	20	
2-Chloroethyl vinyl ether	50.0	68.8 *		ug/L		138	64 - 125	9	20	
2-Chlorotoluene	50.0	52.0		ug/L		104	83 - 119	5	20	
2-Hexanone	50.0	62.9 *		ug/L		126	66 - 121	15	20	
2-Nitropropane	100	109		ug/L		109	63 - 115	14	20	
4-Chlorotoluene	50.0	52.5		ug/L		105	84 - 118	5	20	
4-Isopropyltoluene	50.0	54.6		ug/L		109	85 - 119	6	20	
4-Methyl-2-pentanone (MIBK)	50.0	57.7		ug/L		115	74 - 123	9	20	
Acetone	50.0	56.1		ug/L		112	51 - 140	15	20	

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCSD 160-45595/5****Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA****Matrix: Water****Analysis Batch: 45595**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	RPD
	Added	Result	Qualifier				Limits	Limit		
Acetonitrile	250	317		ug/L	127	44 - 140	12	20		
Acrolein	250	377 *		ug/L	151	79 - 115	9	20		
Acrylonitrile	250	288		ug/L	115	78 - 126	6	20		
Allyl chloride	50.0	51.9		ug/L	104	76 - 119	5	20		
Benzene	50.0	50.7		ug/L	101	85 - 115	4	20		
Bromobenzene	50.0	48.3		ug/L	97	85 - 115	5	20		
Bromoform	50.0	49.2		ug/L	98	84 - 117	2	20		
Bromochloromethane	50.0	48.4		ug/L	97	85 - 117	1	20		
Bromodichloromethane	50.0	50.9		ug/L	102	85 - 115	3	20		
Bromomethane	50.0	38.2		ug/L	76	70 - 135	8	20		
Carbon disulfide	50.0	50.0		ug/L	100	85 - 123	5	20		
Carbon tetrachloride	50.0	51.2		ug/L	102	85 - 118	5	20		
Chlorobenzene	50.0	51.2		ug/L	102	85 - 115	6	20		
Chloroethane	50.0	40.0		ug/L	80	75 - 125	5	20		
Chloroform	50.0	50.4		ug/L	101	85 - 115	3	20		
Chloromethane	50.0	54.0		ug/L	108	73 - 132	8	20		
cis-1,2-Dichloroethene	50.0	48.8		ug/L	98	85 - 115	2	20		
cis-1,3-Dichloropropene	50.0	50.7		ug/L	101	85 - 127	3	20		
Cyclohexane	50.0	53.0		ug/L	106	73 - 115	6	20		
Cyclohexanone	500	528		ug/L	106	29 - 122	8	20		
Dibromochloromethane	50.0	49.7		ug/L	99	85 - 115	6	20		
Dibromomethane	50.0	49.8		ug/L	100	85 - 115	6	20		
Dichlorodifluoromethane	50.0	48.6		ug/L	97	62 - 115	6	20		
Ethyl acetate	100	114		ug/L	114	67 - 119	4	20		
Ethyl ether	100	105		ug/L	105	77 - 115	7	20		
Ethyl methacrylate	50.0	58.5 *		ug/L	117	67 - 115	10	20		
1,2-Dibromoethane	50.0	50.8		ug/L	102	85 - 115	6	20		
Ethylbenzene	50.0	53.3		ug/L	107	85 - 115	6	20		
Hexachlorobutadiene	50.0	51.2		ug/L	102	74 - 127	5	20		
Iodomethane	50.0	47.0		ug/L	94	83 - 124	3	20		
Isobutanol	1000	1110		ug/L	111	51 - 136	5	20		
Isopropylbenzene	50.0	54.4		ug/L	109	85 - 124	4	20		
Methacrylonitrile	250	269		ug/L	107	70 - 115	2	20		
Methyl acetate	50.0	53.0		ug/L	106	73 - 135	7	20		
Methyl methacrylate	50.0	47.6		ug/L	95	61 - 115	4	20		
Methyl tert-butyl ether	50.0	50.8		ug/L	102	73 - 115	10	20		
Methylcyclohexane	50.0	54.6		ug/L	109	85 - 134	7	20		
Methylene Chloride	50.0	50.5		ug/L	101	84 - 115	7	20		
m-Xylene & p-Xylene	100	109		ug/L	109	85 - 115	5	20		
Naphthalene	50.0	49.5		ug/L	99	70 - 123	7	20		
n-Butylbenzene	50.0	54.4		ug/L	109	85 - 116	6	20		
n-Hexane	50.0	51.8		ug/L	104	85 - 139	5	20		
N-Propylbenzene	50.0	54.1		ug/L	108	85 - 117	4	20		
o-Xylene	50.0	53.5		ug/L	107	85 - 115	4	20		
Propionitrile	250	292 *		ug/L	117	66 - 115	6	20		
sec-Butylbenzene	50.0	51.6		ug/L	103	85 - 118	4	20		
Styrene	50.0	53.2		ug/L	106	85 - 115	4	20		
tert-Butylbenzene	50.0	51.4		ug/L	103	85 - 124	0	20		

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCSD 160-45595/5****Matrix: Water****Analysis Batch: 45595****Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Added	Result	Qualifier				Limits			
Tetrachloroethene	50.0	48.7		ug/L		97	85 - 115	6	20	
Tetrahydrofuran	250	265		ug/L		106	63 - 117	7	20	
Toluene	50.0	53.0		ug/L		106	85 - 115	4	20	
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	85 - 115	5	20	
trans-1,3-Dichloropropene	50.0	53.6		ug/L		107	85 - 123	7	20	
trans-1,4-Dichloro-2-butene	50.0	53.2		ug/L		106	77 - 115	1	20	
Trichloroethene	50.0	47.5		ug/L		95	85 - 115	2	20	
Trichlorofluoromethane	50.0	50.6		ug/L		101	85 - 116	5	20	
Vinyl acetate	50.0	61.9		ug/L		124	39 - 124	4	20	
Vinyl chloride	50.0	48.2		ug/L		96	68 - 133	6	20	
Xylenes, Total	150	163		ug/L		108		5	20	

LCSD LCSD

Surrogate	LCSD	LCSD	Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101				82 - 132	
4-Bromofluorobenzene (Surr)	95				82 - 121	
Dibromofluoromethane (Surr)	102				85 - 119	
Toluene-d8 (Surr)	105				85 - 115	

Lab Sample ID: 160-2044-20 MS**Matrix: Water****Analysis Batch: 45595****Client Sample ID: DUP05****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	49.0		ug/L		98	85 - 115	
1,1,1-Trichloroethane	ND		50.0	47.5		ug/L		95	85 - 118	
1,1,2,2-Tetrachloroethane	ND		50.0	49.4		ug/L		99	85 - 116	
1,1,2-Trichloroethane	ND		50.0	47.9		ug/L		96	85 - 115	
1,1-Dichloroethane	ND		50.0	50.6		ug/L		101	85 - 115	
1,1-Dichloroethene	ND		50.0	45.6		ug/L		91	85 - 118	
1,1-Dichloropropene	ND		50.0	47.6		ug/L		95	85 - 115	
1,2,3-Trichlorobenzene	ND		50.0	44.5		ug/L		89	70 - 120	
1,2,3-Trichloropropane	ND		50.0	45.1		ug/L		90	80 - 115	
1,2,4-Trichlorobenzene	ND		50.0	47.1		ug/L		94	75 - 124	
1,2,4-Trimethylbenzene	ND		50.0	52.3		ug/L		105	85 - 115	
1,2-Dibromo-3-chloropropane	ND		50.0	42.7		ug/L		85	71 - 123	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		50.0	52.8		ug/L		106	47 - 130	
1,2-Dichlorobenzene	ND		50.0	47.5		ug/L		95	84 - 115	
1,2-Dichloroethane	ND		50.0	47.6		ug/L		95	80 - 125	
1,2-Dichloroethene, Total	ND		100	94.0		ug/L		94	85 - 115	
1,2-Dichloropropane	ND		50.0	48.8		ug/L		98	85 - 117	
1,3,5-Trimethylbenzene	ND		50.0	53.5		ug/L		107	85 - 116	
1,3-Dichlorobenzene	ND		50.0	48.2		ug/L		96	84 - 115	
1,3-Dichloropropane	ND		50.0	48.5		ug/L		97	85 - 115	
1,4-Dichlorobenzene	ND		50.0	48.4		ug/L		97	85 - 115	
1,4-Dioxane	140		1000	1220		ug/L		109	36 - 157	
1-Butanol	ND		500	484		ug/L		97	53 - 140	
2,2-Dichloropropane	ND		50.0	52.8		ug/L		106	80 - 122	

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-20 MS****Matrix: Water****Analysis Batch: 45595**
**Client Sample ID: DUP05
 Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
2-Butanone (MEK)	ND		50.0	45.5		ug/L	91	73 - 133			
2-Chloro-1,3-butadiene	ND		50.0	49.6		ug/L	99	70 - 115			
2-Chloroethyl vinyl ether	ND		50.0	ND F		ug/L	0	15 - 147			
2-Chlorotoluene	ND		50.0	50.8		ug/L	102	84 - 117			
2-Hexanone	ND *		50.0	56.2		ug/L	112	66 - 121			
2-Nitropropane	ND		100	89.1		ug/L	89	64 - 118			
4-Chlorotoluene	ND		50.0	50.0		ug/L	100	85 - 115			
4-Isopropyltoluene	ND		50.0	52.5		ug/L	105	85 - 116			
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.3		ug/L	111	77 - 134			
Acetone	ND		50.0	39.4		ug/L	79	38 - 150			
Acetonitrile	ND		250	285		ug/L	114	44 - 141			
Acrolein	ND		250	369 F		ug/L	148	60 - 122			
Acrylonitrile	ND		250	279		ug/L	111	78 - 128			
Allyl chloride	ND		50.0	50.3		ug/L	101	76 - 119			
Benzene	ND		50.0	48.9		ug/L	98	85 - 115			
Bromobenzene	ND		50.0	46.0		ug/L	92	85 - 115			
Bromochloromethane	ND		50.0	47.2		ug/L	94	85 - 115			
Bromodichloromethane	ND		50.0	46.3		ug/L	93	56 - 119			
Bromoform	ND		50.0	48.0		ug/L	96	84 - 116			
Bromomethane	ND		50.0	33.7 F		ug/L	67	70 - 135			
Carbon disulfide	ND		50.0	47.9		ug/L	96	85 - 127			
Carbon tetrachloride	ND		50.0	48.0		ug/L	96	85 - 121			
Chlorobenzene	ND		50.0	49.1		ug/L	98	85 - 115			
Chloroethane	ND		50.0	36.0 F		ug/L	72	73 - 123			
Chloroform	ND		50.0	48.4		ug/L	97	85 - 115			
Chloromethane	ND		50.0	50.8		ug/L	102	67 - 130			
cis-1,2-Dichloroethene	ND		50.0	48.3		ug/L	97	80 - 116			
cis-1,3-Dichloropropene	ND		50.0	46.0		ug/L	92	85 - 124			
Cyclohexane	ND		50.0	50.1		ug/L	100	73 - 115			
Cyclohexanone	ND		500	529		ug/L	106	26 - 121			
Dibromochloromethane	ND		50.0	47.3		ug/L	95	85 - 115			
Dibromomethane	ND		50.0	46.8		ug/L	94	85 - 115			
Dichlorodifluoromethane	ND		50.0	45.4		ug/L	91	85 - 119			
Ethyl acetate	ND		100	104		ug/L	104	71 - 116			
Ethyl ether	31		100	131		ug/L	100	79 - 115			
Ethyl methacrylate	ND		50.0	53.2		ug/L	106	67 - 115			
1,2-Dibromoethane	ND		50.0	47.6		ug/L	95	85 - 115			
Ethylbenzene	ND		50.0	50.3		ug/L	101	85 - 115			
Hexachlorobutadiene	ND		50.0	48.8		ug/L	98	64 - 134			
Iodomethane	ND		50.0	45.4		ug/L	91	78 - 126			
Isobutanol	ND		1000	993		ug/L	99	51 - 137			
Isopropylbenzene	ND		50.0	53.2		ug/L	106	85 - 124			
Methacrylonitrile	ND		250	249		ug/L	100	70 - 118			
Methyl acetate	ND		50.0	51.7		ug/L	103	49 - 150			
Methyl methacrylate	ND		50.0	45.4		ug/L	91	61 - 115			
Methyl tert-butyl ether	ND		50.0	45.9		ug/L	92	75 - 115			
Methylcyclohexane	ND		50.0	51.2		ug/L	102	85 - 137			
Methylene Chloride	ND		50.0	47.8		ug/L	96	85 - 115			

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-20 MS****Matrix: Water****Analysis Batch: 45595**
**Client Sample ID: DUP05
 Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
m-Xylene & p-Xylene	ND		100	102		ug/L		102	85 - 115		
Naphthalene	ND		50.0	45.4		ug/L		91	70 - 123		
n-Butylbenzene	ND		50.0	52.0		ug/L		104	85 - 115		
n-Hexane	ND		50.0	49.6		ug/L		99	85 - 137		
N-Propylbenzene	ND		50.0	52.4		ug/L		105	85 - 115		
o-Xylene	ND		50.0	51.2		ug/L		102	85 - 118		
Propionitrile	ND		250	271		ug/L		108	69 - 120		
sec-Butylbenzene	ND		50.0	50.2		ug/L		100	83 - 117		
Styrene	ND		50.0	50.2		ug/L		100	85 - 115		
tert-Butylbenzene	ND		50.0	52.1		ug/L		104	85 - 122		
Tetrachloroethene	ND		50.0	45.7		ug/L		91	85 - 118		
Tetrahydrofuran	ND		250	275		ug/L		110	63 - 115		
Toluene	ND		50.0	51.4		ug/L		103	85 - 118		
trans-1,2-Dichloroethene	ND		50.0	45.7		ug/L		91	84 - 115		
trans-1,3-Dichloropropene	ND		50.0	48.5		ug/L		97	85 - 127		
trans-1,4-Dichloro-2-butene	ND		50.0	48.2		ug/L		96	76 - 115		
Trichloroethene	ND		50.0	46.1		ug/L		92	85 - 115		
Trichlorofluoromethane	ND		50.0	46.9		ug/L		94	85 - 115		
Vinyl acetate	ND		50.0	59.4		ug/L		119	24 - 136		
Vinyl chloride	2.4 J		50.0	45.4		ug/L		86	63 - 129		
Xylenes, Total	ND		150	153		ug/L		102	70 - 130		

MS MS

Surrogate	MS	MS	Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97					82 - 132
4-Bromofluorobenzene (Surr)	95					82 - 121
Dibromofluoromethane (Surr)	100					85 - 119
Toluene-d8 (Surr)	101					85 - 115

Lab Sample ID: 160-2044-20 MSD**Matrix: Water****Analysis Batch: 45595**
**Client Sample ID: DUP05
 Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	52.6		ug/L		105	85 - 115	7	20
1,1,1-Trichloroethane	ND		50.0	50.3		ug/L		101	85 - 118	6	20
1,1,2,2-Tetrachloroethane	ND		50.0	49.2		ug/L		98	85 - 116	0	20
1,1,2-Trichloroethane	ND		50.0	47.7		ug/L		95	85 - 115	0	20
1,1-Dichloroethane	ND		50.0	51.2		ug/L		102	85 - 115	1	20
1,1-Dichloroethene	ND		50.0	47.6		ug/L		95	85 - 118	4	20
1,1-Dichloropropene	ND		50.0	47.0		ug/L		94	85 - 115	1	20
1,2,3-Trichlorobenzene	ND		50.0	49.3		ug/L		99	70 - 120	10	20
1,2,3-Trichloropropane	ND		50.0	45.8		ug/L		92	80 - 115	2	20
1,2,4-Trichlorobenzene	ND		50.0	51.0		ug/L		102	75 - 124	8	20
1,2,4-Trimethylbenzene	ND		50.0	51.5		ug/L		103	85 - 115	2	20
1,2-Dibromo-3-chloropropane	ND		50.0	52.8 F		ug/L		106	71 - 123	21	20
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		50.0	55.1		ug/L		110	47 - 130	4	20
1,2-Dichlorobenzene	ND		50.0	49.9		ug/L		100	84 - 115	5	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-20 MSD****Matrix: Water****Analysis Batch: 45595**
**Client Sample ID: DUP05
 Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dichloroethane	ND		50.0	47.1		ug/L		94	80 - 125	1	20
1,2-Dichloroethene, Total	ND		100	96.3		ug/L		96	85 - 115	2	20
1,2-Dichloropropane	ND		50.0	50.0		ug/L		100	85 - 117	3	20
1,3,5-Trimethylbenzene	ND		50.0	52.0		ug/L		104	85 - 116	3	20
1,3-Dichlorobenzene	ND		50.0	49.2		ug/L		98	84 - 115	2	20
1,3-Dichloropropane	ND		50.0	49.3		ug/L		99	85 - 115	2	20
1,4-Dichlorobenzene	ND		50.0	48.6		ug/L		97	85 - 115	1	20
1,4-Dioxane	140		1000	1290		ug/L		115	36 - 157	5	20
1-Butanol	ND		500	503		ug/L		101	53 - 140	4	20
2,2-Dichloropropane	ND		50.0	54.5		ug/L		109	80 - 122	3	20
2-Butanone (MEK)	ND		50.0	44.3		ug/L		89	73 - 133	3	20
2-Chloro-1,3-butadiene	ND		50.0	50.3		ug/L		101	70 - 115	1	20
2-Chloroethyl vinyl ether	ND		50.0	ND F		ug/L		0	15 - 147	NC	20
2-Chlorotoluene	ND		50.0	49.9		ug/L		100	84 - 117	2	20
2-Hexanone	ND *		50.0	60.9 F		ug/L		122	66 - 121	8	20
2-Nitropropane	ND		100	101		ug/L		101	64 - 118	12	20
4-Chlorotoluene	ND		50.0	49.4		ug/L		99	85 - 115	1	20
4-Isopropyltoluene	ND		50.0	52.1		ug/L		104	85 - 116	1	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	58.4		ug/L		117	77 - 134	5	20
Acetone	ND		50.0	55.5 F		ug/L		111	38 - 150	34	20
Acetonitrile	ND		250	304		ug/L		122	44 - 141	6	20
Acrolein	ND		250	386 F		ug/L		155	60 - 122	5	20
Acrylonitrile	ND		250	286		ug/L		114	78 - 128	3	20
Allyl chloride	ND		50.0	50.7		ug/L		101	76 - 119	1	20
Benzene	ND		50.0	49.5		ug/L		99	85 - 115	1	20
Bromobenzene	ND		50.0	45.9		ug/L		92	85 - 115	0	20
Bromoform	ND		50.0	48.8		ug/L		98	85 - 115	3	20
Bromochloromethane	ND		50.0	46.9		ug/L		94	56 - 119	1	20
Bromodichloromethane	ND		50.0	49.4		ug/L		99	84 - 116	3	20
Bromoform	ND		50.0	35.2		ug/L		70	70 - 135	5	20
Bromomethane	ND		50.0	50.5		ug/L		101	85 - 127	5	20
Carbon disulfide	ND		50.0	49.9		ug/L		100	85 - 121	4	20
Carbon tetrachloride	ND		50.0	49.4		ug/L		99	85 - 115	0	20
Chlorobenzene	ND		50.0	38.1		ug/L		76	73 - 123	6	20
Chloroethane	ND		50.0	49.5		ug/L		99	85 - 115	2	20
Chloroform	ND		50.0	54.3		ug/L		109	67 - 130	7	20
Chloromethane	ND		50.0	48.6		ug/L		97	80 - 116	1	20
cis-1,2-Dichloroethene	ND		50.0	45.9		ug/L		92	85 - 124	0	20
cis-1,3-Dichloropropene	ND		50.0	52.2		ug/L		104	73 - 115	4	20
Cyclohexane	ND		500	493		ug/L		99	26 - 121	7	20
Cyclohexanone	ND		50.0	47.9		ug/L		96	85 - 115	1	20
Dibromochloromethane	ND		50.0	46.9		ug/L		94	85 - 115	0	20
Dibromomethane	ND		50.0	49.6		ug/L		99	85 - 119	9	20
Ethyl acetate	ND		100	ND F		ug/L		0	71 - 116	NC	20
Ethyl ether	31		100	135		ug/L		104	79 - 115	3	20
Ethyl methacrylate	ND		50.0	55.8		ug/L		112	67 - 115	5	20
1,2-Dibromoethane	ND		50.0	50.2		ug/L		100	85 - 115	5	20
Ethylbenzene	ND		50.0	51.5		ug/L		103	85 - 115	2	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-20 MSD****Matrix: Water****Analysis Batch: 45595****Client Sample ID: DUP05****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.		RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec.	Limits		
Hexachlorobutadiene	ND		50.0	51.3		ug/L		103	64 - 134	5	20
Iodomethane	ND		50.0	48.6		ug/L		97	78 - 126	7	20
Isobutanol	ND		1000	1110		ug/L		111	51 - 137	12	20
Isopropylbenzene	ND		50.0	52.5		ug/L		105	85 - 124	1	20
Methacrylonitrile	ND		250	260		ug/L		104	70 - 118	4	20
Methyl acetate	ND		50.0	52.4		ug/L		105	49 - 150	1	20
Methyl methacrylate	ND		50.0	45.0		ug/L		90	61 - 115	1	20
Methyl tert-butyl ether	ND		50.0	51.2		ug/L		102	75 - 115	11	20
Methylcyclohexane	ND		50.0	53.4		ug/L		107	85 - 137	4	20
Methylene Chloride	ND		50.0	49.2		ug/L		98	85 - 115	3	20
m-Xylene & p-Xylene	ND		100	106		ug/L		106	85 - 115	4	20
Naphthalene	ND		50.0	50.7		ug/L		101	70 - 123	11	20
n-Butylbenzene	ND		50.0	52.5		ug/L		105	85 - 115	1	20
n-Hexane	ND		50.0	51.1		ug/L		102	85 - 137	3	20
N-Propylbenzene	ND		50.0	52.3		ug/L		105	85 - 115	0	20
o-Xylene	ND		50.0	53.0		ug/L		106	85 - 118	3	20
Propionitrile	ND		250	288		ug/L		115	69 - 120	6	20
sec-Butylbenzene	ND		50.0	49.4		ug/L		99	83 - 117	2	20
Styrene	ND		50.0	53.2		ug/L		106	85 - 115	6	20
tert-Butylbenzene	ND		50.0	48.6		ug/L		97	85 - 122	7	20
Tetrachloroethene	ND		50.0	46.5		ug/L		93	85 - 118	2	20
Tetrahydrofuran	ND		250	308 F		ug/L		123	63 - 115	11	20
Toluene	ND		50.0	51.4		ug/L		103	85 - 118	0	20
trans-1,2-Dichloroethene	ND		50.0	47.7		ug/L		95	84 - 115	4	20
trans-1,3-Dichloropropene	ND		50.0	48.8		ug/L		98	85 - 127	1	20
trans-1,4-Dichloro-2-butene	ND		50.0	50.3		ug/L		101	76 - 115	4	20
Trichloroethene	ND		50.0	46.2		ug/L		92	85 - 115	0	20
Trichlorofluoromethane	ND		50.0	49.8		ug/L		100	85 - 115	6	20
Vinyl acetate	ND		50.0	59.2		ug/L		118	24 - 136	0	20
Vinyl chloride	2.4	J	50.0	48.0		ug/L		91	63 - 129	6	20
Xylenes, Total	ND		150	159		ug/L		106	70 - 130	4	20

MSD MSD

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		82 - 132
4-Bromofluorobenzene (Surr)	91		82 - 121
Dibromofluoromethane (Surr)	101		85 - 119
Toluene-d8 (Surr)	103		85 - 115

Lab Sample ID: MB 160-45727/2**Matrix: Water****Analysis Batch: 45727****Client Sample ID: Method Blank****Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed		Dil Fac
	Result	Qualifier						%Rec.	Limits	
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 09:07		1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 09:07		1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 09:07		1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 09:07		1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 09:07		1

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-45727/2

Client Sample ID: Method Blank
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 45727

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND	ND									
1,2,4-Trichlorobenzene	ND	ND			5.0	0.55	ug/L			04/11/13 09:07	1
1,2-Dibromo-3-chloropropane	ND	ND			10	1.2	ug/L			04/11/13 09:07	1
1,2-Dichlorobenzene	ND	ND			5.0	0.28	ug/L			04/11/13 09:07	1
1,2-Dichloroethane	ND	ND			5.0	0.37	ug/L			04/11/13 09:07	1
1,2-Dichloropropane	ND	ND			5.0	0.32	ug/L			04/11/13 09:07	1
1,3-Dichlorobenzene	ND	ND			5.0	0.23	ug/L			04/11/13 09:07	1
1,4-Dichlorobenzene	ND	ND			5.0	0.35	ug/L			04/11/13 09:07	1
2-Butanone (MEK)	ND	ND			20	0.39	ug/L			04/11/13 09:07	1
2-Hexanone	ND	ND			20	0.59	ug/L			04/11/13 09:07	1
4-Methyl-2-pentanone (MIBK)	ND	ND			20	0.33	ug/L			04/11/13 09:07	1
Acetone	ND	ND			20	6.7	ug/L			04/11/13 09:07	1
Benzene	ND	ND			5.0	0.25	ug/L			04/11/13 09:07	1
Bromodichloromethane	ND	ND			5.0	0.25	ug/L			04/11/13 09:07	1
Bromoform	ND	ND			5.0	0.37	ug/L			04/11/13 09:07	1
Bromomethane	ND	ND			10	0.40	ug/L			04/11/13 09:07	1
Carbon disulfide	ND	ND			5.0	0.37	ug/L			04/11/13 09:07	1
Carbon tetrachloride	ND	ND			5.0	0.36	ug/L			04/11/13 09:07	1
Chlorobenzene	ND	ND			5.0	0.38	ug/L			04/11/13 09:07	1
Chloroethane	ND	ND			10	0.38	ug/L			04/11/13 09:07	1
Chloroform	ND	ND			5.0	0.15	ug/L			04/11/13 09:07	1
Chloromethane	ND	ND			10	0.55	ug/L			04/11/13 09:07	1
cis-1,2-Dichloroethene	ND	ND			5.0	0.16	ug/L			04/11/13 09:07	1
cis-1,3-Dichloropropene	ND	ND			5.0	0.34	ug/L			04/11/13 09:07	1
Cyclohexane	ND	ND			10	0.36	ug/L			04/11/13 09:07	1
Dibromochloromethane	ND	ND			5.0	0.33	ug/L			04/11/13 09:07	1
Dichlorodifluoromethane	ND	ND			10	0.45	ug/L			04/11/13 09:07	1
1,2-Dibromoethane	ND	ND			5.0	0.44	ug/L			04/11/13 09:07	1
Ethylbenzene	ND	ND			5.0	0.30	ug/L			04/11/13 09:07	1
Isopropylbenzene	ND	ND			5.0	0.26	ug/L			04/11/13 09:07	1
Methyl acetate	ND	ND			5.0	2.3	ug/L			04/11/13 09:07	1
Methyl tert-butyl ether	ND	ND			5.0	0.40	ug/L			04/11/13 09:07	1
Methylcyclohexane	ND	ND			10	0.26	ug/L			04/11/13 09:07	1
Methylene Chloride	ND	ND			5.0	1.7	ug/L			04/11/13 09:07	1
m-Xylene & p-Xylene	ND	ND			5.0	0.57	ug/L			04/11/13 09:07	1
o-Xylene	ND	ND			5.0	0.32	ug/L			04/11/13 09:07	1
Styrene	ND	ND			5.0	0.35	ug/L			04/11/13 09:07	1
Tetrachloroethene	ND	ND			5.0	0.28	ug/L			04/11/13 09:07	1
Toluene	ND	ND			5.0	1.0	ug/L			04/11/13 09:07	1
trans-1,2-Dichloroethene	ND	ND			5.0	0.18	ug/L			04/11/13 09:07	1
trans-1,3-Dichloropropene	ND	ND			5.0	0.35	ug/L			04/11/13 09:07	1
Trichloroethene	ND	ND			5.0	0.29	ug/L			04/11/13 09:07	1
Trichlorofluoromethane	ND	ND			5.0	0.22	ug/L			04/11/13 09:07	1
Vinyl chloride	ND	ND			5.0	0.43	ug/L			04/11/13 09:07	1
Xylenes, Total	ND	ND			10	0.85	ug/L			04/11/13 09:07	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	ND	ND						
1,2-Dichloroethane-d4 (Surr)	ND	ND	96		82 - 132		04/11/13 09:07	1
4-Bromofluorobenzene (Surr)	ND	ND	84		82 - 121		04/11/13 09:07	1

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: MB 160-45727/2****Matrix: Water****Analysis Batch: 45727**
Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)		101			85 - 119		04/11/13 09:07	1
Toluene-d8 (Surr)		89			85 - 115		04/11/13 09:07	1

Lab Sample ID: LCS 160-45727/4**Matrix: Water****Analysis Batch: 45727**
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,1,1,2-Tetrachloroethane			50.0	50.9		ug/L		102	85 - 115	
1,1,1-Trichloroethane			50.0	49.0		ug/L		98	85 - 115	
1,1,2,2-Tetrachloroethane			50.0	45.5		ug/L		91	84 - 115	
1,1,2-Trichloroethane			50.0	44.0		ug/L		88	85 - 115	
1,1-Dichloroethane			50.0	44.8		ug/L		90	85 - 115	
1,1-Dichloroethene			50.0	48.5		ug/L		97	85 - 118	
1,1-Dichloropropene			50.0	46.2		ug/L		92	85 - 115	
1,2,3-Trichlorobenzene			50.0	46.5		ug/L		93	72 - 120	
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	80 - 115	
1,2,4-Trichlorobenzene			50.0	51.2		ug/L		102	75 - 124	
1,2,4-Trimethylbenzene			50.0	45.2		ug/L		90	85 - 115	
1,2-Dibromo-3-chloropropane			50.0	54.6		ug/L		109	71 - 123	
1,2-Dichloro-1,1,2,2-tetrafluoroethane			50.0	57.1		ug/L		114	47 - 130	
1,2-Dichlorobenzene			50.0	49.8		ug/L		100	85 - 115	
1,2-Dichloroethane			50.0	47.0		ug/L		94	79 - 122	
1,2-Dichloroethene, Total			100	94.5		ug/L		95	85 - 115	
1,2-Dichloropropene			50.0	43.0		ug/L		86	85 - 115	
1,3,5-Trimethylbenzene			50.0	45.4		ug/L		91	85 - 117	
1,3-Dichlorobenzene			50.0	49.6		ug/L		99	85 - 115	
1,3-Dichloropropane			50.0	44.7		ug/L		89	84 - 115	
1,4-Dichlorobenzene			50.0	44.9		ug/L		90	85 - 115	
1,4-Dioxane			1000	736		ug/L		74	26 - 141	
1-Butanol			500	415		ug/L		83	49 - 132	
2,2-Dichloropropane			50.0	48.5		ug/L		97	85 - 127	
2-Butanone (MEK)			50.0	46.1		ug/L		92	71 - 123	
2-Chloro-1,3-butadiene			50.0	47.9		ug/L		96	70 - 115	
2-Chloroethyl vinyl ether			50.0	42.6		ug/L		85	64 - 125	
2-Chlorotoluene			50.0	44.5		ug/L		89	83 - 119	
2-Hexanone			50.0	46.4		ug/L		93	66 - 121	
2-Nitropropane			100	92.7		ug/L		93	63 - 115	
4-Chlorotoluene			50.0	47.3		ug/L		95	84 - 118	
4-Isopropyltoluene			50.0	44.3		ug/L		89	85 - 119	
4-Methyl-2-pentanone (MIBK)			50.0	46.7		ug/L		93	74 - 123	
Acetone			50.0	44.9		ug/L		90	51 - 140	
Acetonitrile			250	230		ug/L		92	44 - 140	
Acrolein			250	228		ug/L		91	79 - 115	
Acrylonitrile			250	238		ug/L		95	78 - 126	
Allyl chloride			50.0	47.6		ug/L		95	76 - 119	
Benzene			50.0	45.2		ug/L		90	85 - 115	

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCS 160-45727/4****Matrix: Water****Analysis Batch: 45727**
**Client Sample ID: Lab Control Sample
 Prep Type: Total/NA**

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Bromobenzene	50.0	49.5		ug/L	99	85 - 115	
Bromochloromethane	50.0	50.3		ug/L	101	84 - 117	
Bromodichloromethane	50.0	48.1		ug/L	96	85 - 117	
Bromoform	50.0	50.6		ug/L	101	85 - 115	
Bromomethane	50.0	46.2		ug/L	92	70 - 135	
Carbon disulfide	50.0	46.9		ug/L	94	85 - 123	
Carbon tetrachloride	50.0	50.6		ug/L	101	85 - 118	
Chlorobenzene	50.0	45.6		ug/L	91	85 - 115	
Chloroethane	50.0	44.7		ug/L	89	75 - 125	
Chloroform	50.0	46.8		ug/L	94	85 - 115	
Chloromethane	50.0	46.9		ug/L	94	73 - 132	
cis-1,2-Dichloroethene	50.0	47.0		ug/L	94	85 - 115	
cis-1,3-Dichloropropene	50.0	46.7		ug/L	93	85 - 127	
Cyclohexane	50.0	45.0		ug/L	90	73 - 115	
Cyclohexanone	500	449		ug/L	90	29 - 122	
Dibromochloromethane	50.0	50.5		ug/L	101	85 - 115	
Dibromomethane	50.0	48.3		ug/L	97	85 - 115	
Dichlorodifluoromethane	50.0	48.9		ug/L	98	62 - 115	
Ethyl acetate	100	92.2		ug/L	92	67 - 119	
Ethyl ether	100	93.4		ug/L	93	77 - 115	
Ethyl methacrylate	50.0	46.0		ug/L	92	67 - 115	
1,2-Dibromoethane	50.0	47.3		ug/L	95	85 - 115	
Ethylbenzene	50.0	42.2 *		ug/L	84	85 - 115	
Hexachlorobutadiene	50.0	50.0		ug/L	100	74 - 127	
Iodomethane	50.0	50.1		ug/L	100	83 - 124	
Isobutanol	1000	865		ug/L	86	51 - 136	
Isopropylbenzene	50.0	45.5		ug/L	91	85 - 124	
Methacrylonitrile	250	228		ug/L	91	70 - 115	
Methyl acetate	50.0	45.9		ug/L	92	73 - 135	
Methyl methacrylate	50.0	47.3		ug/L	95	61 - 115	
Methyl tert-butyl ether	50.0	45.9		ug/L	92	73 - 115	
Methylcyclohexane	50.0	46.3		ug/L	93	85 - 134	
Methylene Chloride	50.0	46.3		ug/L	93	84 - 115	
m-Xylene & p-Xylene	100	86.0		ug/L	86	85 - 115	
Naphthalene	50.0	48.3		ug/L	97	70 - 123	
n-Butylbenzene	50.0	45.8		ug/L	92	85 - 116	
n-Hexane	50.0	52.3		ug/L	105	85 - 139	
N-Propylbenzene	50.0	45.4		ug/L	91	85 - 117	
o-Xylene	50.0	46.7		ug/L	93	85 - 115	
Propionitrile	250	229		ug/L	92	66 - 115	
sec-Butylbenzene	50.0	45.2		ug/L	90	85 - 118	
Styrene	50.0	50.1		ug/L	100	85 - 115	
tert-Butylbenzene	50.0	44.6		ug/L	89	85 - 124	
Tetrachloroethene	50.0	50.4		ug/L	101	85 - 115	
Tetrahydrofuran	250	234		ug/L	94	63 - 117	
Toluene	50.0	45.8		ug/L	92	85 - 115	
trans-1,2-Dichloroethene	50.0	47.5		ug/L	95	85 - 115	
trans-1,3-Dichloropropene	50.0	47.3		ug/L	95	85 - 123	

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCS 160-45727/4****Matrix: Water****Analysis Batch: 45727**
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
trans-1,4-Dichloro-2-butene	50.0	45.4		ug/L		91	77 - 115
Trichloroethene	50.0	47.5		ug/L		95	85 - 115
Trichlorofluoromethane	50.0	51.3		ug/L		103	85 - 116
Vinyl acetate	50.0	48.1		ug/L		96	39 - 124
Vinyl chloride	50.0	46.3		ug/L		93	68 - 133
Xylenes, Total	150	133		ug/L		88	
Surrogate		LCS	LCS				
		%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	98			82 - 132			
4-Bromofluorobenzene (Surr)	87			82 - 121			
Dibromofluoromethane (Surr)	100			85 - 119			
Toluene-d8 (Surr)	94			85 - 115			

Lab Sample ID: 160-2044-5 MS**Matrix: Water****Analysis Batch: 45727**
Client Sample ID: PZ-204A-SS
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	50.0		ug/L		100	85 - 115
1,1,1-Trichloroethane	ND		50.0	50.6		ug/L		101	85 - 118
1,1,2,2-Tetrachloroethane	ND		50.0	48.6		ug/L		97	85 - 116
1,1,2-Trichloroethane	ND		50.0	45.0		ug/L		90	85 - 115
1,1-Dichloroethane	ND		50.0	46.7		ug/L		93	85 - 115
1,1-Dichloroethene	ND		50.0	50.5		ug/L		101	85 - 118
1,1-Dichloropropene	ND		50.0	47.6		ug/L		95	85 - 115
1,2,3-Trichlorobenzene	ND		50.0	45.3		ug/L		91	70 - 120
1,2,3-Trichloropropane	ND		50.0	45.6		ug/L		91	80 - 115
1,2,4-Trichlorobenzene	ND		50.0	48.5		ug/L		97	75 - 124
1,2,4-Trimethylbenzene	ND		50.0	46.8		ug/L		94	85 - 115
1,2-Dibromo-3-chloropropane	ND		50.0	50.0		ug/L		100	71 - 123
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		50.0	61.1		ug/L		122	47 - 130
1,2-Dichlorobenzene	ND		50.0	50.3		ug/L		101	84 - 115
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	80 - 125
1,2-Dichloroethene, Total	ND		100	96.5		ug/L		97	85 - 115
1,2-Dichloropropane	ND		50.0	44.8		ug/L		90	85 - 117
1,3,5-Trimethylbenzene	ND		50.0	46.2		ug/L		92	85 - 116
1,3-Dichlorobenzene	ND		50.0	51.1		ug/L		102	84 - 115
1,3-Dichloropropane	ND		50.0	45.5		ug/L		91	85 - 115
1,4-Dichlorobenzene	ND		50.0	46.1		ug/L		92	85 - 115
1,4-Dioxane	ND		1000	737		ug/L		74	36 - 157
1-Butanol	ND		500	439		ug/L		88	53 - 140
2,2-Dichloropropane	ND		50.0	51.0		ug/L		102	80 - 122
2-Butanone (MEK)	ND		50.0	45.8		ug/L		92	73 - 133
2-Chloro-1,3-butadiene	ND		50.0	48.8		ug/L		98	70 - 115
2-Chloroethyl vinyl ether	ND		50.0	ND F		ug/L		0	15 - 147
2-Chlorotoluene	ND		50.0	45.9		ug/L		92	84 - 117
2-Hexanone	ND		50.0	40.4		ug/L		81	66 - 121

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-2044-5 MS

Matrix: Water

Analysis Batch: 45727

Client Sample ID: PZ-204A-SS

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
2-Nitropropane	ND		100	95.2		ug/L		95	64 - 118		
4-Chlorotoluene	ND		50.0	48.9		ug/L		98	85 - 115		
4-Isopropyltoluene	ND		50.0	45.7		ug/L		91	85 - 116		
4-Methyl-2-pentanone (MIBK)	ND		50.0	43.9		ug/L		88	77 - 134		
Acetone	ND		50.0	42.2		ug/L		84	38 - 150		
Acetonitrile	ND		250	233		ug/L		93	44 - 141		
Acrolein	ND		250	241		ug/L		96	60 - 122		
Acrylonitrile	ND		250	245		ug/L		98	78 - 128		
Allyl chloride	ND		50.0	48.8		ug/L		98	76 - 119		
Benzene	ND		50.0	46.9		ug/L		94	85 - 115		
Bromobenzene	ND		50.0	51.0		ug/L		102	85 - 115		
Bromochloromethane	ND		50.0	49.8		ug/L		100	85 - 115		
Bromodichloromethane	ND		50.0	50.1		ug/L		100	56 - 119		
Bromoform	ND		50.0	52.5		ug/L		105	84 - 116		
Bromomethane	ND		50.0	46.7		ug/L		93	70 - 135		
Carbon disulfide	ND		50.0	49.4		ug/L		99	85 - 127		
Carbon tetrachloride	ND		50.0	52.3		ug/L		105	85 - 121		
Chlorobenzene	ND		50.0	46.7		ug/L		93	85 - 115		
Chloroethane	ND		50.0	42.4		ug/L		85	73 - 123		
Chloroform	ND		50.0	47.4		ug/L		95	85 - 115		
Chloromethane	ND		50.0	46.1		ug/L		92	67 - 130		
cis-1,2-Dichloroethene	ND		50.0	48.6		ug/L		97	80 - 116		
cis-1,3-Dichloropropene	ND		50.0	48.1		ug/L		96	85 - 124		
Cyclohexane	ND		50.0	50.0		ug/L		100	73 - 115		
Cyclohexanone	ND		500	343		ug/L		69	26 - 121		
Dibromochloromethane	ND		50.0	51.5		ug/L		103	85 - 115		
Dibromomethane	ND		50.0	49.7		ug/L		99	85 - 115		
Dichlorodifluoromethane	ND		50.0	51.1		ug/L		102	85 - 119		
Ethyl acetate	ND		100	89.2		ug/L		89	71 - 116		
Ethyl ether	ND		100	96.9		ug/L		97	79 - 115		
Ethyl methacrylate	ND		50.0	42.0		ug/L		84	67 - 115		
1,2-Dibromoethane	ND		50.0	48.6		ug/L		97	85 - 115		
Ethylbenzene	ND *		50.0	43.0		ug/L		86	85 - 115		
Hexachlorobutadiene	ND		50.0	50.2		ug/L		100	64 - 134		
Iodomethane	ND		50.0	51.0		ug/L		102	78 - 126		
Isobutanol	ND		1000	856		ug/L		86	51 - 137		
Isopropylbenzene	ND		50.0	47.4		ug/L		95	85 - 124		
Methacrylonitrile	ND		250	233		ug/L		93	70 - 118		
Methyl acetate	ND		50.0	47.0		ug/L		94	49 - 150		
Methyl methacrylate	ND		50.0	46.7		ug/L		93	61 - 115		
Methyl tert-butyl ether	ND		50.0	46.8		ug/L		94	75 - 115		
Methylcyclohexane	ND		50.0	48.2		ug/L		96	85 - 137		
Methylene Chloride	ND		50.0	47.9		ug/L		96	85 - 115		
m-Xylene & p-Xylene	ND		100	86.5		ug/L		86	85 - 115		
Naphthalene	ND		50.0	45.5		ug/L		91	70 - 123		
n-Butylbenzene	ND		50.0	47.0		ug/L		94	85 - 115		
n-Hexane	ND		50.0	50.7		ug/L		101	85 - 137		
N-Propylbenzene	ND		50.0	47.4		ug/L		95	85 - 115		

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-5 MS****Matrix: Water****Analysis Batch: 45727****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
o-Xylene	ND		50.0	47.4		ug/L		95	85 - 118
Propionitrile	ND		250	234		ug/L		94	69 - 120
sec-Butylbenzene	ND		50.0	48.1		ug/L		96	83 - 117
Styrene	ND		50.0	50.0		ug/L		100	85 - 115
tert-Butylbenzene	ND		50.0	47.0		ug/L		94	85 - 122
Tetrachloroethene	ND		50.0	51.2		ug/L		102	85 - 118
Tetrahydrofuran	ND		250	242		ug/L		97	63 - 115
Toluene	ND		50.0	47.5		ug/L		95	85 - 118
trans-1,2-Dichloroethene	ND		50.0	47.9		ug/L		96	84 - 115
trans-1,3-Dichloropropene	ND		50.0	47.1		ug/L		94	85 - 127
trans-1,4-Dichloro-2-butene	ND		50.0	48.2		ug/L		96	76 - 115
Trichloroethene	ND		50.0	47.9		ug/L		96	85 - 115
Trichlorofluoromethane	ND		50.0	52.9		ug/L		106	85 - 115
Vinyl acetate	ND		50.0	50.2		ug/L		100	24 - 136
Vinyl chloride	ND		50.0	45.7		ug/L		91	63 - 129
Xylenes, Total	ND		150	134		ug/L		89	70 - 130
Surrogate									
	MS	MS		%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	98			82 - 132					
4-Bromofluorobenzene (Surr)	88			82 - 121					
Dibromofluoromethane (Surr)	99			85 - 119					
Toluene-d8 (Surr)	94			85 - 115					

Lab Sample ID: 160-2044-5 MSD**Matrix: Water****Analysis Batch: 45727****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	51.0		ug/L		102	85 - 115
1,1,1-Trichloroethane	ND		50.0	52.3		ug/L		105	85 - 118
1,1,2,2-Tetrachloroethane	ND		50.0	48.9		ug/L		98	85 - 116
1,1,2-Trichloroethane	ND		50.0	46.2		ug/L		92	85 - 115
1,1-Dichloroethane	ND		50.0	46.7		ug/L		93	85 - 115
1,1-Dichloroethene	ND		50.0	52.0		ug/L		104	85 - 118
1,1-Dichloropropene	ND		50.0	49.0		ug/L		98	85 - 115
1,2,3-Trichlorobenzene	ND		50.0	42.6		ug/L		85	70 - 120
1,2,3-Trichloropropane	ND		50.0	50.0		ug/L		100	80 - 115
1,2,4-Trichlorobenzene	ND		50.0	46.0		ug/L		92	75 - 124
1,2,4-Trimethylbenzene	ND		50.0	47.1		ug/L		94	85 - 115
1,2-Dibromo-3-chloropropane	ND		50.0	51.8		ug/L		104	71 - 123
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		50.0	58.3		ug/L		117	47 - 130
1,2-Dichlorobenzene	ND		50.0	49.3		ug/L		99	84 - 115
1,2-Dichloroethane	ND		50.0	50.6		ug/L		101	80 - 125
1,2-Dichloroethene, Total	ND		100	96.4		ug/L		96	85 - 115
1,2-Dichloropropane	ND		50.0	45.7		ug/L		91	85 - 117
1,3,5-Trimethylbenzene	ND		50.0	47.2		ug/L		94	85 - 116
1,3-Dichlorobenzene	ND		50.0	50.8		ug/L		102	84 - 115

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-5 MSD****Matrix: Water****Analysis Batch: 45727****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
1,3-Dichloropropane	ND		50.0	47.2		ug/L		94	85 - 115	4	20
1,4-Dichlorobenzene	ND		50.0	45.1		ug/L		90	85 - 115	2	20
1,4-Dioxane	ND		1000	831		ug/L		83	36 - 157	12	20
1-Butanol	ND		500	429		ug/L		86	53 - 140	2	20
2,2-Dichloropropane	ND		50.0	53.3		ug/L		107	80 - 122	4	20
2-Butanone (MEK)	ND		50.0	46.8		ug/L		94	73 - 133	2	20
2-Chloro-1,3-butadiene	ND		50.0	49.5		ug/L		99	70 - 115	1	20
2-Chloroethyl vinyl ether	ND		50.0	ND F		ug/L		0	15 - 147	NC	20
2-Chlorotoluene	ND		50.0	46.6		ug/L		93	84 - 117	1	20
2-Hexanone	ND		50.0	48.4		ug/L		97	66 - 121	18	20
2-Nitropropane	ND		100	96.0		ug/L		96	64 - 118	1	20
4-Chlorotoluene	ND		50.0	50.0		ug/L		100	85 - 115	2	20
4-Isopropyltoluene	ND		50.0	45.6		ug/L		91	85 - 116	0	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	48.1		ug/L		96	77 - 134	9	20
Acetone	ND		50.0	45.9		ug/L		92	38 - 150	8	20
Acetonitrile	ND		250	250		ug/L		100	44 - 141	7	20
Acrolein	ND		250	239		ug/L		95	60 - 122	1	20
Acrylonitrile	ND		250	251		ug/L		100	78 - 128	2	20
Allyl chloride	ND		50.0	50.3		ug/L		101	76 - 119	3	20
Benzene	ND		50.0	47.4		ug/L		95	85 - 115	1	20
Bromobenzene	ND		50.0	51.2		ug/L		102	85 - 115	0	20
Bromoform	ND		50.0	52.9		ug/L		106	84 - 116	1	20
Bromomethane	ND		50.0	51.7		ug/L		103	85 - 115	4	20
Bromodichloromethane	ND		50.0	51.2		ug/L		102	56 - 119	2	20
Chlorobenzene	ND		50.0	46.9		ug/L		94	85 - 115	0	20
Chloroethane	ND		50.0	46.2		ug/L		92	73 - 123	9	20
Chloroform	ND		50.0	48.9		ug/L		98	85 - 115	3	20
Chloromethane	ND		50.0	47.2		ug/L		94	67 - 130	2	20
cis-1,2-Dichloroethene	ND		50.0	48.3		ug/L		97	80 - 116	1	20
cis-1,3-Dichloropropene	ND		50.0	49.2		ug/L		98	85 - 124	2	20
Cyclohexane	ND		50.0	49.0		ug/L		98	73 - 115	2	20
Cyclohexanone	ND		500	404		ug/L		81	26 - 121	16	20
Dibromochloromethane	ND		50.0	52.3		ug/L		105	85 - 115	2	20
Dibromomethane	ND		50.0	50.0		ug/L		100	85 - 115	1	20
Dichlorodifluoromethane	ND		50.0	52.2		ug/L		104	85 - 119	2	20
Ethyl acetate	ND		100	94.5		ug/L		94	71 - 116	6	20
Ethyl ether	ND		100	101		ug/L		101	79 - 115	4	20
Ethyl methacrylate	ND		50.0	47.3		ug/L		95	67 - 115	12	20
1,2-Dibromoethane	ND		50.0	49.3		ug/L		99	85 - 115	1	20
Ethylbenzene	ND *		50.0	43.2		ug/L		86	85 - 115	0	20
Hexachlorobutadiene	ND		50.0	48.0		ug/L		96	64 - 134	5	20
Iodomethane	ND		50.0	51.8		ug/L		104	78 - 126	2	20
Isobutanol	ND		1000	902		ug/L		90	51 - 137	5	20
Isopropylbenzene	ND		50.0	47.7		ug/L		95	85 - 124	1	20
Methacrylonitrile	ND		250	239		ug/L		95	70 - 118	3	20

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-5 MSD****Matrix: Water****Analysis Batch: 45727****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier			%Rec.	Limits		
Methyl acetate	ND		50.0	47.7		ug/L	95	49 - 150		1	20
Methyl methacrylate	ND		50.0	48.5		ug/L	97	61 - 115		4	20
Methyl tert-butyl ether	ND		50.0	49.1		ug/L	98	75 - 115		5	20
Methylcyclohexane	ND		50.0	48.7		ug/L	97	85 - 137		1	20
Methylene Chloride	ND		50.0	48.4		ug/L	97	85 - 115		1	20
m-Xylene & p-Xylene	ND		100	86.6		ug/L	87	85 - 115		0	20
Naphthalene	ND		50.0	44.1		ug/L	88	70 - 123		3	20
n-Butylbenzene	ND		50.0	46.5		ug/L	93	85 - 115		1	20
n-Hexane	ND		50.0	53.2		ug/L	106	85 - 137		5	20
N-Propylbenzene	ND		50.0	48.4		ug/L	97	85 - 115		2	20
o-Xylene	ND		50.0	47.3		ug/L	95	85 - 118		0	20
Propionitrile	ND		250	239		ug/L	96	69 - 120		2	20
sec-Butylbenzene	ND		50.0	47.6		ug/L	95	83 - 117		1	20
Styrene	ND		50.0	50.2		ug/L	100	85 - 115		0	20
tert-Butylbenzene	ND		50.0	47.1		ug/L	94	85 - 122		0	20
Tetrachloroethene	ND		50.0	51.1		ug/L	102	85 - 118		0	20
Tetrahydrofuran	ND		250	255		ug/L	102	63 - 115		5	20
Toluene	ND		50.0	46.7		ug/L	93	85 - 118		2	20
trans-1,2-Dichloroethene	ND		50.0	48.1		ug/L	96	84 - 115		0	20
trans-1,3-Dichloropropene	ND		50.0	48.7		ug/L	97	85 - 127		3	20
trans-1,4-Dichloro-2-butene	ND		50.0	47.6		ug/L	95	76 - 115		1	20
Trichloroethene	ND		50.0	48.7		ug/L	97	85 - 115		2	20
Trichlorofluoromethane	ND		50.0	55.0		ug/L	110	85 - 115		4	20
Vinyl acetate	ND		50.0	52.3		ug/L	105	24 - 136		4	20
Vinyl chloride	ND		50.0	48.3		ug/L	97	63 - 129		5	20
Xylenes, Total	ND		150	134		ug/L	89	70 - 130		0	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		82 - 132
4-Bromofluorobenzene (Surr)	90		82 - 121
Dibromofluoromethane (Surr)	100		85 - 119
Toluene-d8 (Surr)	94		85 - 115

Lab Sample ID: MB 160-46184/2**Matrix: Water****Analysis Batch: 46184****Client Sample ID: Method Blank****Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed		Dil Fac
	Result	Qualifier						%Recovery	Qualifier	
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			04/11/13 23:27		1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			04/11/13 23:27		1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			04/11/13 23:27		1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			04/11/13 23:27		1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			04/11/13 23:27		1
1,2,4-Trichlorobenzene	ND		5.0	0.55	ug/L			04/11/13 23:27		1
1,2-Dibromo-3-chloropropane	ND		10	1.2	ug/L			04/11/13 23:27		1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			04/11/13 23:27		1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			04/11/13 23:27		1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			04/11/13 23:27		1

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 160-46184/2

Client Sample ID: Method Blank
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 46184

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,3-Dichlorobenzene	ND				5.0	0.23	ug/L			04/11/13 23:27	1
1,4-Dichlorobenzene	ND				5.0	0.35	ug/L			04/11/13 23:27	1
2-Butanone (MEK)	ND				20	0.39	ug/L			04/11/13 23:27	1
2-Hexanone	ND				20	0.59	ug/L			04/11/13 23:27	1
4-Methyl-2-pentanone (MIBK)	ND				20	0.33	ug/L			04/11/13 23:27	1
Acetone	ND				20	6.7	ug/L			04/11/13 23:27	1
Benzene	ND				5.0	0.25	ug/L			04/11/13 23:27	1
Bromodichloromethane	ND				5.0	0.25	ug/L			04/11/13 23:27	1
Bromoform	ND				5.0	0.37	ug/L			04/11/13 23:27	1
Bromomethane	ND				10	0.40	ug/L			04/11/13 23:27	1
Carbon disulfide	ND				5.0	0.37	ug/L			04/11/13 23:27	1
Carbon tetrachloride	ND				5.0	0.36	ug/L			04/11/13 23:27	1
Chlorobenzene	ND				5.0	0.38	ug/L			04/11/13 23:27	1
Chloroethane	ND				10	0.38	ug/L			04/11/13 23:27	1
Chloroform	ND				5.0	0.15	ug/L			04/11/13 23:27	1
Chloromethane	ND				10	0.55	ug/L			04/11/13 23:27	1
cis-1,2-Dichloroethene	ND				5.0	0.16	ug/L			04/11/13 23:27	1
cis-1,3-Dichloropropene	ND				5.0	0.34	ug/L			04/11/13 23:27	1
Cyclohexane	ND				10	0.36	ug/L			04/11/13 23:27	1
Dibromochloromethane	ND				5.0	0.33	ug/L			04/11/13 23:27	1
Dichlorodifluoromethane	ND				10	0.45	ug/L			04/11/13 23:27	1
1,2-Dibromoethane	ND				5.0	0.44	ug/L			04/11/13 23:27	1
Ethylbenzene	ND				5.0	0.30	ug/L			04/11/13 23:27	1
Isopropylbenzene	ND				5.0	0.26	ug/L			04/11/13 23:27	1
Methyl acetate	ND				5.0	2.3	ug/L			04/11/13 23:27	1
Methyl tert-butyl ether	ND				5.0	0.40	ug/L			04/11/13 23:27	1
Methylcyclohexane	ND				10	0.26	ug/L			04/11/13 23:27	1
Methylene Chloride	ND				5.0	1.7	ug/L			04/11/13 23:27	1
m-Xylene & p-Xylene	ND				5.0	0.57	ug/L			04/11/13 23:27	1
o-Xylene	ND				5.0	0.32	ug/L			04/11/13 23:27	1
Styrene	ND				5.0	0.35	ug/L			04/11/13 23:27	1
Tetrachloroethene	ND				5.0	0.28	ug/L			04/11/13 23:27	1
Toluene	ND				5.0	1.0	ug/L			04/11/13 23:27	1
trans-1,2-Dichloroethene	ND				5.0	0.18	ug/L			04/11/13 23:27	1
trans-1,3-Dichloropropene	ND				5.0	0.35	ug/L			04/11/13 23:27	1
Trichloroethene	ND				5.0	0.29	ug/L			04/11/13 23:27	1
Trichlorofluoromethane	ND				5.0	0.22	ug/L			04/11/13 23:27	1
Vinyl chloride	ND				5.0	0.43	ug/L			04/11/13 23:27	1
Xylenes, Total	ND				10	0.85	ug/L			04/11/13 23:27	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2-Dichloroethane-d4 (Surr)	110		110		82 - 132		04/11/13 23:27	1
4-Bromofluorobenzene (Surr)	103		103		82 - 121		04/11/13 23:27	1
Dibromofluoromethane (Surr)	104		104		85 - 119		04/11/13 23:27	1
Toluene-d8 (Surr)	97		97		85 - 115		04/11/13 23:27	1

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCS 160-46184/4****Matrix: Water****Analysis Batch: 46184****Client Sample ID: Lab Control Sample****Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,1,1,2-Tetrachloroethane	50.0	46.2		ug/L	92	85 - 115		
1,1,1-Trichloroethane	50.0	45.1		ug/L	90	85 - 115		
1,1,2,2-Tetrachloroethane	50.0	46.6		ug/L	93	84 - 115		
1,1,2-Trichloroethane	50.0	47.2		ug/L	94	85 - 115		
1,1-Dichloroethane	50.0	47.6		ug/L	95	85 - 115		
1,1-Dichloroethene	50.0	41.2 *		ug/L	82	85 - 118		
1,1-Dichloropropene	50.0	45.1		ug/L	90	85 - 115		
1,2,3-Trichlorobenzene	50.0	42.6		ug/L	85	72 - 120		
1,2,3-Trichloropropane	50.0	46.8		ug/L	94	80 - 115		
1,2,4-Trichlorobenzene	50.0	44.0		ug/L	88	75 - 124		
1,2,4-Trimethylbenzene	50.0	50.0		ug/L	100	85 - 115		
1,2-Dibromo-3-chloropropane	50.0	41.1		ug/L	82	71 - 123		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	50.0	47.4		ug/L	95	47 - 130		
1,2-Dichlorobenzene	50.0	45.0		ug/L	90	85 - 115		
1,2-Dichloroethane	50.0	47.0		ug/L	94	79 - 122		
1,2-Dichloroethene, Total	100	87.4		ug/L	87	85 - 115		
1,2-Dichloropropene	50.0	46.6		ug/L	93	85 - 115		
1,3,5-Trimethylbenzene	50.0	50.3		ug/L	101	85 - 117		
1,3-Dichlorobenzene	50.0	46.4		ug/L	93	85 - 115		
1,3-Dichloropropane	50.0	48.1		ug/L	96	84 - 115		
1,4-Dichlorobenzene	50.0	47.3		ug/L	95	85 - 115		
1,4-Dioxane	1000	798		ug/L	80	26 - 141		
1-Butanol	500	472		ug/L	94	49 - 132		
2,2-Dichloropropene	50.0	48.8		ug/L	98	85 - 127		
2-Butanone (MEK)	50.0	43.6		ug/L	87	71 - 123		
2-Chloro-1,3-butadiene	50.0	47.1		ug/L	94	70 - 115		
2-Chloroethyl vinyl ether	50.0	50.7		ug/L	101	64 - 125		
2-Chlorotoluene	50.0	48.5		ug/L	97	83 - 119		
2-Hexanone	50.0	56.4		ug/L	113	66 - 121		
2-Nitropropane	100	99.4		ug/L	99	63 - 115		
4-Chlorotoluene	50.0	49.5		ug/L	99	84 - 118		
4-Isopropyltoluene	50.0	49.8		ug/L	100	85 - 119		
4-Methyl-2-pentanone (MIBK)	50.0	53.2		ug/L	106	74 - 123		
Acetone	50.0	43.2		ug/L	86	51 - 140		
Acetonitrile	250	277		ug/L	111	44 - 140		
Acrolein	250	338 *		ug/L	135	79 - 115		
Acrylonitrile	250	252		ug/L	101	78 - 126		
Allyl chloride	50.0	46.7		ug/L	93	76 - 119		
Benzene	50.0	46.5		ug/L	93	85 - 115		
Bromobenzene	50.0	45.6		ug/L	91	85 - 115		
Bromochloromethane	50.0	45.2		ug/L	90	84 - 117		
Bromodichloromethane	50.0	46.1		ug/L	92	85 - 117		
Bromoform	50.0	47.8		ug/L	96	85 - 115		
Bromomethane	50.0	33.5 *		ug/L	67	70 - 135		
Carbon disulfide	50.0	42.9		ug/L	86	85 - 123		
Carbon tetrachloride	50.0	45.6		ug/L	91	85 - 118		
Chlorobenzene	50.0	47.2		ug/L	94	85 - 115		

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCS 160-46184/4****Matrix: Water****Analysis Batch: 46184****Client Sample ID: Lab Control Sample
Prep Type: Total/NA**

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Chloroethane	50.0	37.5		ug/L	75	75 - 125	
Chloroform	50.0	46.2		ug/L	92	85 - 115	
Chloromethane	50.0	46.2		ug/L	92	73 - 132	
cis-1,2-Dichloroethene	50.0	44.7		ug/L	89	85 - 115	
cis-1,3-Dichloropropene	50.0	47.3		ug/L	95	85 - 127	
Cyclohexane	50.0	46.3		ug/L	93	73 - 115	
Cyclohexanone	500	450		ug/L	90	29 - 122	
Dibromochloromethane	50.0	46.5		ug/L	93	85 - 115	
Dibromomethane	50.0	46.2		ug/L	92	85 - 115	
Dichlorodifluoromethane	50.0	40.6		ug/L	81	62 - 115	
Ethyl acetate	100	107		ug/L	107	67 - 119	
Ethyl ether	100	92.1		ug/L	92	77 - 115	
Ethyl methacrylate	50.0	53.5		ug/L	107	67 - 115	
1,2-Dibromoethane	50.0	46.6		ug/L	93	85 - 115	
Ethylbenzene	50.0	48.6		ug/L	97	85 - 115	
Hexachlorobutadiene	50.0	46.3		ug/L	93	74 - 127	
Iodomethane	50.0	42.1		ug/L	84	83 - 124	
Isobutanol	1000	943		ug/L	94	51 - 136	
Isopropylbenzene	50.0	50.8		ug/L	102	85 - 124	
Methacrylonitrile	250	246		ug/L	98	70 - 115	
Methyl acetate	50.0	45.1		ug/L	90	73 - 135	
Methyl methacrylate	50.0	46.5		ug/L	93	61 - 115	
Methyl tert-butyl ether	50.0	44.0		ug/L	88	73 - 115	
Methylcyclohexane	50.0	47.4		ug/L	95	85 - 134	
Methylene Chloride	50.0	43.6		ug/L	87	84 - 115	
m-Xylene & p-Xylene	100	98.3		ug/L	98	85 - 115	
Naphthalene	50.0	42.5		ug/L	85	70 - 123	
n-Butylbenzene	50.0	49.6		ug/L	99	85 - 116	
n-Hexane	50.0	48.6		ug/L	97	85 - 139	
N-Propylbenzene	50.0	50.2		ug/L	100	85 - 117	
o-Xylene	50.0	48.6		ug/L	97	85 - 115	
Propionitrile	250	246		ug/L	99	66 - 115	
sec-Butylbenzene	50.0	48.1		ug/L	96	85 - 118	
Styrene	50.0	51.0		ug/L	102	85 - 115	
tert-Butylbenzene	50.0	49.6		ug/L	99	85 - 124	
Tetrachloroethene	50.0	46.0		ug/L	92	85 - 115	
Tetrahydrofuran	250	228		ug/L	91	63 - 117	
Toluene	50.0	50.0		ug/L	100	85 - 115	
trans-1,2-Dichloroethene	50.0	42.7		ug/L	85	85 - 115	
trans-1,3-Dichloropropene	50.0	50.7		ug/L	101	85 - 123	
trans-1,4-Dichloro-2-butene	50.0	55.2		ug/L	110	77 - 115	
Trichloroethene	50.0	46.0		ug/L	92	85 - 115	
Trichlorofluoromethane	50.0	44.6		ug/L	89	85 - 116	
Vinyl acetate	50.0	59.7		ug/L	119	39 - 124	
Vinyl chloride	50.0	42.6		ug/L	85	68 - 133	
Xylenes, Total	150	147		ug/L	98		

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCS 160-46184/4****Matrix: Water****Analysis Batch: 46184**

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		82 - 132
4-Bromofluorobenzene (Surr)	95		82 - 121
Dibromofluoromethane (Surr)	96		85 - 119
Toluene-d8 (Surr)	102		85 - 115

Lab Sample ID: LCSD 160-46184/5**Matrix: Water****Analysis Batch: 46184**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Added	Result	Qualifier							
1,1,1,2-Tetrachloroethane		50.0	50.4		ug/L		101	85 - 115	9	20	
1,1,1-Trichloroethane		50.0	50.1		ug/L		100	85 - 115	11	20	
1,1,2,2-Tetrachloroethane		50.0	48.2		ug/L		96	84 - 115	3	20	
1,1,2-Trichloroethane		50.0	48.0		ug/L		96	85 - 115	2	20	
1,1-Dichloroethane		50.0	49.4		ug/L		99	85 - 115	4	20	
1,1-Dichloroethene		50.0	47.8		ug/L		96	85 - 118	15	20	
1,1-Dichloropropene		50.0	47.4		ug/L		95	85 - 115	5	20	
1,2,3-Trichlorobenzene		50.0	49.8		ug/L		100	72 - 120	16	20	
1,2,3-Trichloropropane		50.0	46.4		ug/L		93	80 - 115	1	20	
1,2,4-Trichlorobenzene		50.0	49.6		ug/L		99	75 - 124	12	20	
1,2,4-Trimethylbenzene		50.0	53.0		ug/L		106	85 - 115	6	20	
1,2-Dibromo-3-chloropropane		50.0	45.8		ug/L		92	71 - 123	11	20	
1,2-Dichloro-1,1,2,2-tetrafluoroethane		50.0	56.3		ug/L		113	47 - 130	17	20	
1,2-Dichlorobenzene		50.0	48.8		ug/L		98	85 - 115	8	20	
1,2-Dichloroethane		50.0	48.2		ug/L		96	79 - 122	3	20	
1,2-Dichloroethene, Total		100	95.9		ug/L		96	85 - 115	9	20	
1,2-Dichloropropene		50.0	49.5		ug/L		99	85 - 115	6	20	
1,3,5-Trimethylbenzene		50.0	53.4		ug/L		107	85 - 117	6	20	
1,3-Dichlorobenzene		50.0	48.5		ug/L		97	85 - 115	4	20	
1,3-Dichloropropane		50.0	47.9		ug/L		96	84 - 115	1	20	
1,4-Dichlorobenzene		50.0	48.8		ug/L		98	85 - 115	3	20	
1,4-Dioxane		1000	952		ug/L		95	26 - 141	18	20	
1-Butanol		500	506		ug/L		101	49 - 132	7	20	
2,2-Dichloropropane		50.0	56.8		ug/L		114	85 - 127	15	20	
2-Butanone (MEK)		50.0	49.5		ug/L		99	71 - 123	13	20	
2-Chloro-1,3-butadiene		50.0	50.2		ug/L		100	70 - 115	6	20	
2-Chloroethyl vinyl ether		50.0	59.8		ug/L		120	64 - 125	16	20	
2-Chlorotoluene		50.0	50.8		ug/L		102	83 - 119	5	20	
2-Hexanone		50.0	56.9		ug/L		114	66 - 121	1	20	
2-Nitropropane		100	102		ug/L		102	63 - 115	2	20	
4-Chlorotoluene		50.0	50.4		ug/L		101	84 - 118	2	20	
4-Isopropyltoluene		50.0	53.1		ug/L		106	85 - 119	6	20	
4-Methyl-2-pentanone (MIBK)		50.0	55.0		ug/L		110	74 - 123	3	20	
Acetone		50.0	40.7		ug/L		81	51 - 140	6	20	
Acetonitrile		250	280		ug/L		112	44 - 140	1	20	
Acrolein		250	357 *		ug/L		143	79 - 115	5	20	
Acrylonitrile		250	272		ug/L		109	78 - 126	8	20	

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCSD 160-46184/5****Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA****Matrix: Water****Analysis Batch: 46184**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	RPD Limit
	Added	Result	Qualifier				Limits	RPD		
Allyl chloride	50.0	51.7		ug/L		103	76 - 119	10	20	
Benzene	50.0	50.1		ug/L		100	85 - 115	7	20	
Bromobenzene	50.0	47.0		ug/L		94	85 - 115	3	20	
Bromoform	50.0	49.1		ug/L		98	84 - 117	8	20	
Bromochloromethane	50.0	48.4		ug/L		97	85 - 117	5	20	
Bromodichloromethane	50.0	47.6		ug/L		95	85 - 115	0	20	
Bromomethane	50.0	38.7		ug/L		77	70 - 135	14	20	
Carbon disulfide	50.0	49.8		ug/L		100	85 - 123	15	20	
Carbon tetrachloride	50.0	51.6		ug/L		103	85 - 118	12	20	
Chlorobenzene	50.0	49.2		ug/L		98	85 - 115	4	20	
Chloroethane	50.0	41.5		ug/L		83	75 - 125	10	20	
Chloroform	50.0	49.3		ug/L		99	85 - 115	6	20	
Chloromethane	50.0	54.6		ug/L		109	73 - 132	17	20	
cis-1,2-Dichloroethene	50.0	48.8		ug/L		98	85 - 115	9	20	
cis-1,3-Dichloropropene	50.0	48.9		ug/L		98	85 - 127	3	20	
Cyclohexane	50.0	53.1		ug/L		106	73 - 115	14	20	
Cyclohexanone	500	507		ug/L		101	29 - 122	12	20	
Dibromochloromethane	50.0	48.3		ug/L		97	85 - 115	4	20	
Dibromomethane	50.0	48.2		ug/L		96	85 - 115	4	20	
Dichlorodifluoromethane	50.0	48.4		ug/L		97	62 - 115	18	20	
Ethyl acetate	100	102		ug/L		102	67 - 119	4	20	
Ethyl ether	100	99.0		ug/L		99	77 - 115	7	20	
Ethyl methacrylate	50.0	54.0		ug/L		108	67 - 115	1	20	
1,2-Dibromoethane	50.0	48.4		ug/L		97	85 - 115	4	20	
Ethylbenzene	50.0	52.1		ug/L		104	85 - 115	7	20	
Hexachlorobutadiene	50.0	52.1		ug/L		104	74 - 127	12	20	
Iodomethane	50.0	47.4		ug/L		95	83 - 124	12	20	
Isobutanol	1000	1010		ug/L		101	51 - 136	7	20	
Isopropylbenzene	50.0	54.0		ug/L		108	85 - 124	6	20	
Methacrylonitrile	250	261		ug/L		104	70 - 115	6	20	
Methyl acetate	50.0	49.5		ug/L		99	73 - 135	9	20	
Methyl methacrylate	50.0	44.6		ug/L		89	61 - 115	4	20	
Methyl tert-butyl ether	50.0	47.0		ug/L		94	73 - 115	7	20	
Methylcyclohexane	50.0	53.0		ug/L		106	85 - 134	11	20	
Methylene Chloride	50.0	48.8		ug/L		98	84 - 115	11	20	
m-Xylene & p-Xylene	100	106		ug/L		106	85 - 115	8	20	
Naphthalene	50.0	47.9		ug/L		96	70 - 123	12	20	
n-Butylbenzene	50.0	53.8		ug/L		108	85 - 116	8	20	
n-Hexane	50.0	52.1		ug/L		104	85 - 139	7	20	
N-Propylbenzene	50.0	53.2		ug/L		106	85 - 117	6	20	
o-Xylene	50.0	52.8		ug/L		106	85 - 115	8	20	
Propionitrile	250	283		ug/L		113	66 - 115	14	20	
sec-Butylbenzene	50.0	51.0		ug/L		102	85 - 118	6	20	
Styrene	50.0	52.1		ug/L		104	85 - 115	2	20	
tert-Butylbenzene	50.0	52.0		ug/L		104	85 - 124	5	20	
Tetrachloroethene	50.0	48.5		ug/L		97	85 - 115	5	20	
Tetrahydrofuran	250	242		ug/L		97	63 - 117	6	20	
Toluene	50.0	51.7		ug/L		103	85 - 115	3	20	

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: LCSD 160-46184/5****Matrix: Water****Analysis Batch: 46184****Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
trans-1,2-Dichloroethene	50.0	47.1		ug/L		94	85 - 115	10	20
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	85 - 123	3	20
trans-1,4-Dichloro-2-butene	50.0	50.0		ug/L		100	77 - 115	10	20
Trichloroethene	50.0	46.6		ug/L		93	85 - 115	1	20
Trichlorofluoromethane	50.0	51.2		ug/L		102	85 - 116	14	20
Vinyl acetate	50.0	59.2		ug/L		118	39 - 124	1	20
Vinyl chloride	50.0	49.5		ug/L		99	68 - 133	15	20
Xylenes, Total	150	159		ug/L		106		8	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		82 - 132
4-Bromofluorobenzene (Surr)	94		82 - 121
Dibromofluoromethane (Surr)	103		85 - 119
Toluene-d8 (Surr)	105		85 - 115

Lab Sample ID: 160-2044-7 MS**Matrix: Water****Analysis Batch: 46184****Client Sample ID: PZ-205-SS
Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	48.2		ug/L		96	85 - 115
1,1,1-Trichloroethane	ND		50.0	49.5		ug/L		99	85 - 118
1,1,2,2-Tetrachloroethane	ND		50.0	51.2		ug/L		102	85 - 116
1,1,2-Trichloroethane	ND		50.0	48.2		ug/L		96	85 - 115
1,1-Dichloroethane	ND		50.0	50.9		ug/L		102	85 - 115
1,1-Dichloroethene	ND *		50.0	46.1		ug/L		92	85 - 118
1,1-Dichloropropene	ND		50.0	49.5		ug/L		99	85 - 115
1,2,3-Trichlorobenzene	ND		50.0	47.3		ug/L		95	70 - 120
1,2,3-Trichloropropane	ND		50.0	47.6		ug/L		95	80 - 115
1,2,4-Trichlorobenzene	ND		50.0	49.1		ug/L		98	75 - 124
1,2,4-Trimethylbenzene	ND		50.0	54.4		ug/L		109	85 - 115
1,2-Dibromo-3-chloropropane	ND		50.0	44.2		ug/L		88	71 - 123
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		50.0	52.8		ug/L		106	47 - 130
1,2-Dichlorobenzene	ND		50.0	50.1		ug/L		100	84 - 115
1,2-Dichloroethane	ND		50.0	47.7		ug/L		95	80 - 125
1,2-Dichloroethene, Total	ND		100	95.3		ug/L		95	85 - 115
1,2-Dichloropropane	ND		50.0	48.9		ug/L		98	85 - 117
1,3,5-Trimethylbenzene	ND		50.0	55.0		ug/L		110	85 - 116
1,3-Dichlorobenzene	ND		50.0	51.2		ug/L		102	84 - 115
1,3-Dichloropropane	ND		50.0	50.3		ug/L		101	85 - 115
1,4-Dichlorobenzene	ND		50.0	50.4		ug/L		101	85 - 115
1,4-Dioxane	ND		1000	909		ug/L		91	36 - 157
1-Butanol	ND		500	507		ug/L		101	53 - 140
2,2-Dichloropropane	ND		50.0	55.2		ug/L		110	80 - 122
2-Butanone (MEK)	ND		50.0	45.1		ug/L		90	73 - 133
2-Chloro-1,3-butadiene	ND		50.0	50.3		ug/L		101	70 - 115
2-Chloroethyl vinyl ether	ND		50.0	ND F		ug/L		0	15 - 147

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-2044-7 MS

Client Sample ID: PZ-205-SS

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 46184

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
2-Chlorotoluene	ND		50.0	53.2		ug/L		106	84 - 117		
2-Hexanone	ND		50.0	56.7		ug/L		113	66 - 121		
2-Nitropropane	ND		100	100		ug/L		100	64 - 118		
4-Chlorotoluene	ND		50.0	53.0		ug/L		106	85 - 115		
4-Isopropyltoluene	ND		50.0	54.8		ug/L		110	85 - 116		
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.1		ug/L		110	77 - 134		
Acetone	ND		50.0	38.6		ug/L		77	38 - 150		
Acetonitrile	ND		250	286		ug/L		114	44 - 141		
Acrolein	ND		250	364 F		ug/L		145	60 - 122		
Acrylonitrile	ND		250	262		ug/L		105	78 - 128		
Allyl chloride	ND		50.0	50.6		ug/L		101	76 - 119		
Benzene	ND		50.0	50.1		ug/L		100	85 - 115		
Bromobenzene	ND		50.0	48.2		ug/L		96	85 - 115		
Bromoform	ND		50.0	48.9		ug/L		98	84 - 116		
Bromomethane	ND *		50.0	35.5		ug/L		71	70 - 135		
Carbon disulfide	ND		50.0	48.9		ug/L		98	85 - 127		
Carbon tetrachloride	ND		50.0	50.0		ug/L		100	85 - 121		
Chlorobenzene	ND		50.0	49.8		ug/L		100	85 - 115		
Chloroethane	ND		50.0	38.9		ug/L		78	73 - 123		
Chloroform	ND		50.0	49.3		ug/L		99	85 - 115		
Chloromethane	ND		50.0	51.8		ug/L		104	67 - 130		
cis-1,2-Dichloroethene	ND		50.0	48.1		ug/L		96	80 - 116		
cis-1,3-Dichloropropene	ND		50.0	48.4		ug/L		97	85 - 124		
Cyclohexane	ND		50.0	51.8		ug/L		104	73 - 115		
Cyclohexanone	ND		500	452		ug/L		90	26 - 121		
Dibromochloromethane	ND		50.0	48.8		ug/L		98	85 - 115		
Dibromomethane	ND		50.0	46.8		ug/L		94	85 - 115		
Dichlorodifluoromethane	ND		50.0	45.7		ug/L		91	85 - 119		
Ethyl acetate	ND		100	97.6		ug/L		98	71 - 116		
Ethyl ether	ND		100	97.3		ug/L		97	79 - 115		
Ethyl methacrylate	ND		50.0	53.6		ug/L		107	67 - 115		
1,2-Dibromoethane	ND		50.0	48.1		ug/L		96	85 - 115		
Ethylbenzene	ND		50.0	51.6		ug/L		103	85 - 115		
Hexachlorobutadiene	ND		50.0	51.5		ug/L		103	64 - 134		
Iodomethane	ND		50.0	46.4		ug/L		93	78 - 126		
Isobutanol	ND		1000	1020		ug/L		102	51 - 137		
Isopropylbenzene	ND		50.0	54.8		ug/L		110	85 - 124		
Methacrylonitrile	ND		250	253		ug/L		101	70 - 118		
Methyl acetate	ND		50.0	50.8		ug/L		102	49 - 150		
Methyl methacrylate	ND		50.0	47.0		ug/L		94	61 - 115		
Methyl tert-butyl ether	ND		50.0	46.9		ug/L		94	75 - 115		
Methylcyclohexane	ND		50.0	52.9		ug/L		106	85 - 137		
Methylene Chloride	ND		50.0	48.4		ug/L		97	85 - 115		
m-Xylene & p-Xylene	ND		100	107		ug/L		107	85 - 115		
Naphthalene	ND		50.0	46.1		ug/L		92	70 - 123		
n-Butylbenzene	ND		50.0	54.8		ug/L		110	85 - 115		

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-7 MS****Matrix: Water****Analysis Batch: 46184****Client Sample ID: PZ-205-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Limits	Limits
	Result	Qualifier	Added	Result	Qualifier					
n-Hexane	ND		50.0	50.3		ug/L		101	85 - 137	
N-Propylbenzene	ND		50.0	54.2		ug/L		108	85 - 115	
o-Xylene	ND		50.0	52.5		ug/L		105	85 - 118	
Propionitrile	ND		250	269		ug/L		108	69 - 120	
sec-Butylbenzene	ND		50.0	52.5		ug/L		105	83 - 117	
Styrene	ND		50.0	52.3		ug/L		105	85 - 115	
tert-Butylbenzene	ND		50.0	53.8		ug/L		108	85 - 122	
Tetrachloroethene	ND		50.0	48.6		ug/L		97	85 - 118	
Tetrahydrofuran	ND		250	232		ug/L		93	63 - 115	
Toluene	ND		50.0	52.4		ug/L		105	85 - 118	
trans-1,2-Dichloroethene	ND		50.0	47.2		ug/L		94	84 - 115	
trans-1,3-Dichloropropene	ND		50.0	50.2		ug/L		100	85 - 127	
trans-1,4-Dichloro-2-butene	ND		50.0	53.7		ug/L		107	76 - 115	
Trichloroethene	ND		50.0	47.4		ug/L		95	85 - 115	
Trichlorofluoromethane	ND		50.0	49.4		ug/L		99	85 - 115	
Vinyl acetate	ND		50.0	58.6		ug/L		117	24 - 136	
Vinyl chloride	ND		50.0	46.4		ug/L		93	63 - 129	
Xylenes, Total	ND		150	160		ug/L		106	70 - 130	
Surrogate										
	MS	MS								
	%Recovery	Qualifier				Limits				
1,2-Dichloroethane-d4 (Surr)	98					82 - 132				
4-Bromofluorobenzene (Surr)	96					82 - 121				
Dibromofluoromethane (Surr)	100					85 - 119				
Toluene-d8 (Surr)	104					85 - 115				

Lab Sample ID: 160-2044-7 MSD**Matrix: Water****Analysis Batch: 46184****Client Sample ID: PZ-205-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	48.0		ug/L		96	85 - 115	0	20
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	85 - 118	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	49.7		ug/L		99	85 - 116	3	20
1,1,2-Trichloroethane	ND		50.0	45.8		ug/L		92	85 - 115	5	20
1,1-Dichloroethane	ND		50.0	50.7		ug/L		101	85 - 115	1	20
1,1-Dichloroethene	ND *		50.0	47.2		ug/L		94	85 - 118	2	20
1,1-Dichloropropene	ND		50.0	47.4		ug/L		95	85 - 115	4	20
1,2,3-Trichlorobenzene	ND		50.0	45.9		ug/L		92	70 - 120	3	20
1,2,3-Trichloropropane	ND		50.0	46.7		ug/L		93	80 - 115	2	20
1,2,4-Trichlorobenzene	ND		50.0	48.6		ug/L		97	75 - 124	1	20
1,2,4-Trimethylbenzene	ND		50.0	53.1		ug/L		106	85 - 115	2	20
1,2-Dibromo-3-chloropropane	ND		50.0	47.0		ug/L		94	71 - 123	6	20
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		50.0	52.5		ug/L		105	47 - 130	1	20
1,2-Dichlorobenzene	ND		50.0	49.1		ug/L		98	84 - 115	2	20
1,2-Dichloroethane	ND		50.0	46.9		ug/L		94	80 - 125	2	20
1,2-Dichloroethene, Total	ND		100	93.7		ug/L		94	85 - 115	2	20
1,2-Dichloropropene	ND		50.0	47.7		ug/L		95	85 - 117	2	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**Lab Sample ID: 160-2044-7 MSD****Matrix: Water****Analysis Batch: 46184****Client Sample ID: PZ-205-SS****Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
1,3,5-Trimethylbenzene	ND		50.0	55.1		ug/L		110	85 - 116	0	20
1,3-Dichlorobenzene	ND		50.0	49.5		ug/L		99	84 - 115	3	20
1,3-Dichloropropane	ND		50.0	46.8		ug/L		94	85 - 115	7	20
1,4-Dichlorobenzene	ND		50.0	48.5		ug/L		97	85 - 115	4	20
1,4-Dioxane	ND		1000	920		ug/L		92	36 - 157	1	20
1-Butanol	ND		500	497		ug/L		99	53 - 140	2	20
2,2-Dichloropropane	ND		50.0	53.3		ug/L		107	80 - 122	3	20
2-Butanone (MEK)	ND		50.0	47.3		ug/L		95	73 - 133	5	20
2-Chloro-1,3-butadiene	ND		50.0	49.9		ug/L		100	70 - 115	1	20
2-Chloroethyl vinyl ether	ND		50.0	ND F		ug/L		0	15 - 147	NC	20
2-Chlorotoluene	ND		50.0	52.7		ug/L		105	84 - 117	1	20
2-Hexanone	ND		50.0	49.4		ug/L		99	66 - 121	14	20
2-Nitropropane	ND		100	93.0		ug/L		93	64 - 118	7	20
4-Chlorotoluene	ND		50.0	51.0		ug/L		102	85 - 115	4	20
4-Isopropyltoluene	ND		50.0	54.8		ug/L		110	85 - 116	0	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	50.9		ug/L		102	77 - 134	8	20
Acetone	ND		50.0	53.7 F		ug/L		107	38 - 150	33	20
Acetonitrile	ND		250	296		ug/L		118	44 - 141	3	20
Acrolein	ND		250	372 F		ug/L		149	60 - 122	2	20
Acrylonitrile	ND		250	275		ug/L		110	78 - 128	5	20
Allyl chloride	ND		50.0	49.8		ug/L		100	76 - 119	2	20
Benzene	ND		50.0	48.4		ug/L		97	85 - 115	3	20
Bromobenzene	ND		50.0	46.7		ug/L		93	85 - 115	3	20
Bromochloromethane	ND		50.0	46.8		ug/L		94	85 - 115	4	20
Bromodichloromethane	ND		50.0	46.6		ug/L		93	56 - 119	1	20
Bromoform	ND		50.0	48.3		ug/L		97	84 - 116	1	20
Bromomethane	ND *		50.0	34.9		ug/L		70	70 - 135	2	20
Carbon disulfide	ND		50.0	48.3		ug/L		97	85 - 127	1	20
Carbon tetrachloride	ND		50.0	47.7		ug/L		95	85 - 121	5	20
Chlorobenzene	ND		50.0	47.3		ug/L		95	85 - 115	5	20
Chloroethane	ND		50.0	36.7		ug/L		73	73 - 123	6	20
Chloroform	ND		50.0	47.8		ug/L		96	85 - 115	3	20
Chloromethane	ND		50.0	51.0		ug/L		102	67 - 130	2	20
cis-1,2-Dichloroethene	ND		50.0	47.7		ug/L		95	80 - 116	1	20
cis-1,3-Dichloropropene	ND		50.0	47.3		ug/L		95	85 - 124	2	20
Cyclohexane	ND		50.0	51.1		ug/L		102	73 - 115	1	20
Cyclohexanone	ND		500	480		ug/L		96	26 - 121	6	20
Dibromochloromethane	ND		50.0	46.8		ug/L		94	85 - 115	4	20
Dibromomethane	ND		50.0	46.8		ug/L		94	85 - 115	0	20
Dichlorodifluoromethane	ND		50.0	44.5		ug/L		89	85 - 119	3	20
Ethyl acetate	ND		100	98.9		ug/L		99	71 - 116	1	20
Ethyl ether	ND		100	96.4		ug/L		96	79 - 115	1	20
Ethyl methacrylate	ND		50.0	49.8		ug/L		100	67 - 115	7	20
1,2-Dibromoethane	ND		50.0	46.2		ug/L		92	85 - 115	4	20
Ethylbenzene	ND		50.0	49.4		ug/L		99	85 - 115	4	20
Hexachlorobutadiene	ND		50.0	50.2		ug/L		100	64 - 134	3	20
Iodomethane	ND		50.0	45.8		ug/L		92	78 - 126	1	20
Isobutanol	ND		1000	990		ug/L		99	51 - 137	3	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 160-2044-7 MSD

Matrix: Water

Analysis Batch: 46184

Client Sample ID: PZ-205-SS

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Isopropylbenzene	ND		50.0	55.6		ug/L		111	85 - 124	2	20	
Methacrylonitrile	ND		250	254		ug/L		102	70 - 118	0	20	
Methyl acetate	ND		50.0	52.2		ug/L		104	49 - 150	3	20	
Methyl methacrylate	ND		50.0	43.0		ug/L		86	61 - 115	9	20	
Methyl tert-butyl ether	ND		50.0	45.6		ug/L		91	75 - 115	3	20	
Methylcyclohexane	ND		50.0	51.8		ug/L		104	85 - 137	2	20	
Methylene Chloride	ND		50.0	48.3		ug/L		97	85 - 115	0	20	
m-Xylene & p-Xylene	ND		100	104		ug/L		104	85 - 115	3	20	
Naphthalene	ND		50.0	46.4		ug/L		93	70 - 123	1	20	
n-Butylbenzene	ND		50.0	53.1		ug/L		106	85 - 115	3	20	
n-Hexane	ND		50.0	51.1		ug/L		102	85 - 137	1	20	
N-Propylbenzene	ND		50.0	54.7		ug/L		109	85 - 115	1	20	
o-Xylene	ND		50.0	50.0		ug/L		100	85 - 118	5	20	
Propionitrile	ND		250	267		ug/L		107	69 - 120	1	20	
sec-Butylbenzene	ND		50.0	51.8		ug/L		104	83 - 117	1	20	
Styrene	ND		50.0	50.7		ug/L		101	85 - 115	3	20	
tert-Butylbenzene	ND		50.0	52.0		ug/L		104	85 - 122	3	20	
Tetrachloroethene	ND		50.0	45.1		ug/L		90	85 - 118	7	20	
Tetrahydrofuran	ND		250	247		ug/L		99	63 - 115	6	20	
Toluene	ND		50.0	50.1		ug/L		100	85 - 118	5	20	
trans-1,2-Dichloroethene	ND		50.0	46.0		ug/L		92	84 - 115	2	20	
trans-1,3-Dichloropropene	ND		50.0	48.9		ug/L		98	85 - 127	3	20	
trans-1,4-Dichloro-2-butene	ND		50.0	45.1		ug/L		90	76 - 115	18	20	
Trichloroethene	ND		50.0	46.6		ug/L		93	85 - 115	2	20	
Trichlorofluoromethane	ND		50.0	48.2		ug/L		96	85 - 115	3	20	
Vinyl acetate	ND		50.0	55.4		ug/L		111	24 - 136	6	20	
Vinyl chloride	ND		50.0	44.1		ug/L		88	63 - 129	5	20	
Xylenes, Total	ND		150	154		ug/L		103	70 - 130	4	20	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		82 - 132
4-Bromofluorobenzene (Surr)	97		82 - 121
Dibromofluoromethane (Surr)	99		85 - 119
Toluene-d8 (Surr)	102		85 - 115

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-45572/1-A

Matrix: Water

Analysis Batch: 46208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45572

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		200	80	ug/L		04/11/13 13:32	04/15/13 16:48	1
Antimony	ND		10	4.0	ug/L		04/11/13 13:32	04/15/13 16:48	1
Arsenic	ND		10	2.0	ug/L		04/11/13 13:32	04/15/13 16:48	1
Barium	ND		50	4.0	ug/L		04/11/13 13:32	04/15/13 16:48	1
Beryllium	ND		5.0	0.61	ug/L		04/11/13 13:32	04/15/13 16:48	1
Cadmium	ND		5.0	0.91	ug/L		04/11/13 13:32	04/15/13 16:48	1

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-45572/1-A

Matrix: Water

Analysis Batch: 46208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1000	110	ug/L		04/11/13 13:32	04/15/13 16:48	1
Chromium	ND		10	3.1	ug/L		04/11/13 13:32	04/15/13 16:48	1
Cobalt	ND		50	4.0	ug/L		04/11/13 13:32	04/15/13 16:48	1
Copper	ND		25	4.6	ug/L		04/11/13 13:32	04/15/13 16:48	1
Iron	ND		100	28	ug/L		04/11/13 13:32	04/15/13 16:48	1
Lead	ND		10	1.5	ug/L		04/11/13 13:32	04/15/13 16:48	1
Magnesium	ND		1000	130	ug/L		04/11/13 13:32	04/15/13 16:48	1
Manganese	ND		15	3.3	ug/L		04/11/13 13:32	04/15/13 16:48	1
Nickel	ND		40	13	ug/L		04/11/13 13:32	04/15/13 16:48	1
Potassium	ND		5000	1700	ug/L		04/11/13 13:32	04/15/13 16:48	1
Selenium	ND		15	2.7	ug/L		04/11/13 13:32	04/15/13 16:48	1
Silver	ND		10	6.0	ug/L		04/11/13 13:32	04/15/13 16:48	1
Sodium	ND		1000	320	ug/L		04/11/13 13:32	04/15/13 16:48	1
Thallium	ND		20	4.0	ug/L		04/11/13 13:32	04/15/13 16:48	1
Vanadium	ND		50	4.1	ug/L		04/11/13 13:32	04/15/13 16:48	1
Zinc	6.30	J		5.2	ug/L		04/11/13 13:32	04/15/13 16:48	1

Lab Sample ID: LCS 160-45572/2-A

Matrix: Water

Analysis Batch: 46208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	10000	10200		ug/L	102	80 - 120	
Antimony	500	524		ug/L	105	80 - 120	
Arsenic	1000	1000		ug/L	100	80 - 120	
Barium	1000	1000		ug/L	100	80 - 120	
Beryllium	1000	992		ug/L	99	80 - 120	
Cadmium	1000	1070		ug/L	107	80 - 120	
Calcium	10000	10600		ug/L	106	80 - 120	
Chromium	1000	1050		ug/L	105	80 - 120	
Cobalt	1000	1090		ug/L	109	80 - 120	
Copper	1000	1060		ug/L	106	80 - 120	
Iron	10000	10100		ug/L	101	80 - 120	
Lead	1000	1070		ug/L	107	80 - 120	
Magnesium	10000	10200		ug/L	102	80 - 120	
Manganese	1000	1040		ug/L	104	80 - 120	
Nickel	1000	1100		ug/L	110	80 - 120	
Potassium	10000	9740		ug/L	97	80 - 120	
Selenium	1000	1030		ug/L	103	80 - 120	
Silver	100	97.9		ug/L	98	80 - 120	
Sodium	10000	9750		ug/L	97	80 - 120	
Thallium	200	225		ug/L	113	80 - 120	
Vanadium	1000	1010		ug/L	101	80 - 120	
Zinc	1000	1050		ug/L	105	80 - 120	

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 6010C - Metals (ICP) (Continued)**Lab Sample ID: 160-2044-5 MS****Matrix: Water****Analysis Batch: 46208****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA****Prep Batch: 45572**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Aluminum	4500		10000	17100	F	ug/L	126	75 - 125	
Antimony	ND		500	543		ug/L	109	75 - 125	
Arsenic	23	J	1000	1060		ug/L	103	75 - 125	
Barium	510		1000	1550		ug/L	104	75 - 125	
Beryllium	4.5	J	1000	1030		ug/L	102	75 - 125	
Cadmium	5.0	J	1000	1100		ug/L	109	75 - 125	
Calcium	240000		10000	261000	E 4	ug/L	213	75 - 125	
Chromium	16	J	1000	1080		ug/L	108	75 - 125	
Cobalt	ND		1000	1110		ug/L	111	75 - 125	
Copper	ND		1000	1050		ug/L	105	75 - 125	
Iron	10000		10000	20500		ug/L	104	75 - 125	
Lead	18	J	1000	1090		ug/L	107	75 - 125	
Magnesium	60000		10000	73000	4	ug/L	132	75 - 125	
Manganese	2500		1000	3620		ug/L	115	75 - 125	
Nickel	ND		1000	1150		ug/L	115	75 - 125	
Potassium	16000	J	10000	27400		ug/L	112	75 - 125	
Selenium	ND		1000	1040		ug/L	104	75 - 125	
Silver	ND		100	98.5		ug/L	99	75 - 125	
Sodium	210000		10000	229000	4	ug/L	193	75 - 125	
Thallium	ND		200	222		ug/L	111	75 - 125	
Vanadium	ND		1000	1060		ug/L	106	75 - 125	
Zinc	67	J B	1000	1140		ug/L	107	75 - 125	

Lab Sample ID: 160-2044-5 MSD**Matrix: Water****Analysis Batch: 46208****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA****Prep Batch: 45572**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aluminum	4500		10000	15900		ug/L	114	75 - 125		7	20
Antimony	ND		500	522		ug/L	104	75 - 125		4	20
Arsenic	23	J	1000	1030		ug/L	101	75 - 125		3	20
Barium	510		1000	1500		ug/L	99	75 - 125		3	20
Beryllium	4.5	J	1000	1010		ug/L	101	75 - 125		1	20
Cadmium	5.0	J	1000	1090		ug/L	108	75 - 125		1	20
Calcium	240000		10000	253000	E 4	ug/L	126	75 - 125		3	20
Chromium	16	J	1000	1070		ug/L	107	75 - 125		1	20
Cobalt	ND		1000	1100		ug/L	110	75 - 125		1	20
Copper	ND		1000	1030		ug/L	103	75 - 125		2	20
Iron	10000		10000	19600		ug/L	95	75 - 125		4	20
Lead	18	J	1000	1070		ug/L	105	75 - 125		2	20
Magnesium	60000		10000	71000	4	ug/L	112	75 - 125		3	20
Manganese	2500		1000	3550		ug/L	108	75 - 125		2	20
Nickel	ND		1000	1140		ug/L	114	75 - 125		1	20
Potassium	16000	J	10000	26400		ug/L	101	75 - 125		4	20
Selenium	ND		1000	1030		ug/L	103	75 - 125		1	20
Silver	ND		100	99.0		ug/L	99	75 - 125		1	20
Sodium	210000		10000	222000	4	ug/L	123	75 - 125		3	20
Thallium	ND		200	217		ug/L	108	75 - 125		3	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.

TestAmerica Job ID: 160-2044-1

Project/Site: West Lake Landfill

Method: 6010C - Metals (ICP) (Continued)**Lab Sample ID: 160-2044-5 MSD****Matrix: Water****Analysis Batch: 46208****Client Sample ID: PZ-204A-SS****Prep Type: Total/NA****Prep Batch: 45572**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Vanadium	ND		1000	1060		ug/L		106	75 - 125	0	20
Zinc	67	J B	1000	1120		ug/L		105	75 - 125	1	20

Lab Sample ID: MB 160-45573/1-A**Client Sample ID: Method Blank****Matrix: Water****Prep Type: Total/NA****Analysis Batch: 46686****Prep Batch: 45573**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		200	80	ug/L		04/11/13 13:35	04/17/13 16:42	1
Antimony	ND		10	4.0	ug/L		04/11/13 13:35	04/17/13 16:42	1
Arsenic	ND		10	2.0	ug/L		04/11/13 13:35	04/17/13 16:42	1
Barium	ND		50	4.0	ug/L		04/11/13 13:35	04/17/13 16:42	1
Beryllium	ND		5.0	0.61	ug/L		04/11/13 13:35	04/17/13 16:42	1
Cadmium	ND		5.0	0.91	ug/L		04/11/13 13:35	04/17/13 16:42	1
Calcium	ND		1000	110	ug/L		04/11/13 13:35	04/17/13 16:42	1
Chromium	ND		10	3.1	ug/L		04/11/13 13:35	04/17/13 16:42	1
Cobalt	ND		50	4.0	ug/L		04/11/13 13:35	04/17/13 16:42	1
Copper	ND		25	4.6	ug/L		04/11/13 13:35	04/17/13 16:42	1
Iron	ND		100	28	ug/L		04/11/13 13:35	04/17/13 16:42	1
Lead	ND		10	1.5	ug/L		04/11/13 13:35	04/17/13 16:42	1
Magnesium	ND		1000	130	ug/L		04/11/13 13:35	04/17/13 16:42	1
Manganese	ND		15	3.3	ug/L		04/11/13 13:35	04/17/13 16:42	1
Nickel	ND		40	13	ug/L		04/11/13 13:35	04/17/13 16:42	1
Potassium	ND		5000	1700	ug/L		04/11/13 13:35	04/17/13 16:42	1
Selenium	ND		15	2.7	ug/L		04/11/13 13:35	04/17/13 16:42	1
Silver	ND		10	6.0	ug/L		04/11/13 13:35	04/17/13 16:42	1
Sodium	ND		1000	320	ug/L		04/11/13 13:35	04/17/13 16:42	1
Thallium	ND		20	4.0	ug/L		04/11/13 13:35	04/17/13 16:42	1
Vanadium	ND		50	4.1	ug/L		04/11/13 13:35	04/17/13 16:42	1
Zinc	ND		20	5.2	ug/L		04/11/13 13:35	04/17/13 16:42	1

Lab Sample ID: MB 160-45573/1-A**Client Sample ID: Method Blank****Matrix: Water****Prep Type: Total/NA****Analysis Batch: 47079****Prep Batch: 45573**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		200	80	ug/L		04/11/13 13:35	04/19/13 16:35	1
Antimony	ND		10	4.0	ug/L		04/11/13 13:35	04/19/13 16:35	1
Arsenic	ND		10	2.0	ug/L		04/11/13 13:35	04/19/13 16:35	1
Barium	ND		50	4.0	ug/L		04/11/13 13:35	04/19/13 16:35	1
Beryllium	ND		5.0	0.61	ug/L		04/11/13 13:35	04/19/13 16:35	1
Cadmium	ND		5.0	0.91	ug/L		04/11/13 13:35	04/19/13 16:35	1
Calcium	ND		1000	110	ug/L		04/11/13 13:35	04/19/13 16:35	1
Chromium	ND		10	3.1	ug/L		04/11/13 13:35	04/19/13 16:35	1
Cobalt	ND		50	4.0	ug/L		04/11/13 13:35	04/19/13 16:35	1
Copper	ND		25	4.6	ug/L		04/11/13 13:35	04/19/13 16:35	1
Iron	ND		100	28	ug/L		04/11/13 13:35	04/19/13 16:35	1
Lead	ND		10	1.5	ug/L		04/11/13 13:35	04/19/13 16:35	1
Magnesium	ND		1000	130	ug/L		04/11/13 13:35	04/19/13 16:35	1

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 6010C - Metals (ICP) (Continued)**Lab Sample ID: MB 160-45573/1-A****Matrix: Water****Analysis Batch: 47079****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 45573**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese		ND			15	3.3	ug/L		04/11/13 13:35	04/19/13 16:35	1
Nickel		ND			40	13	ug/L		04/11/13 13:35	04/19/13 16:35	1
Potassium		ND			5000	1700	ug/L		04/11/13 13:35	04/19/13 16:35	1
Selenium		ND			15	2.7	ug/L		04/11/13 13:35	04/19/13 16:35	1
Silver		ND			10	6.0	ug/L		04/11/13 13:35	04/19/13 16:35	1
Sodium		ND			1000	320	ug/L		04/11/13 13:35	04/19/13 16:35	1
Thallium		ND			20	4.0	ug/L		04/11/13 13:35	04/19/13 16:35	1
Vanadium		ND			50	4.1	ug/L		04/11/13 13:35	04/19/13 16:35	1
Zinc		ND			20	5.2	ug/L		04/11/13 13:35	04/19/13 16:35	1

Lab Sample ID: LCS 160-45573/2-A**Matrix: Water****Analysis Batch: 46686****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45573**

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits
	Added	Result	Qualifier					%Rec	
Aluminum	10000	10300				ug/L		103	80 - 120
Antimony	500	539				ug/L		108	80 - 120
Arsenic	1000	1040				ug/L		104	80 - 120
Barium	1000	1030				ug/L		103	80 - 120
Beryllium	1000	1030				ug/L		103	80 - 120
Cadmium	1000	1080				ug/L		108	80 - 120
Calcium	10000	10900				ug/L		109	80 - 120
Chromium	1000	1090				ug/L		109	80 - 120
Cobalt	1000	1120				ug/L		112	80 - 120
Copper	1000	1090				ug/L		109	80 - 120
Iron	10000	10300				ug/L		103	80 - 120
Lead	1000	1110				ug/L		111	80 - 120
Magnesium	10000	10300				ug/L		103	80 - 120
Manganese	1000	1050				ug/L		105	80 - 120
Nickel	1000	1120				ug/L		112	80 - 120
Potassium	10000	9840				ug/L		98	80 - 120
Selenium	1000	1060				ug/L		106	80 - 120
Silver	100	99.2				ug/L		99	80 - 120
Sodium	10000	9860				ug/L		99	80 - 120
Thallium	200	227				ug/L		114	80 - 120
Vanadium	1000	1010				ug/L		101	80 - 120
Zinc	1000	1070				ug/L		107	80 - 120

Lab Sample ID: LCS 160-45573/2-A**Matrix: Water****Analysis Batch: 47079****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45573**

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits
	Added	Result	Qualifier					%Rec	
Aluminum	10000	10100				ug/L		101	80 - 120
Antimony	500	526				ug/L		105	80 - 120
Arsenic	1000	1010				ug/L		101	80 - 120
Barium	1000	1020				ug/L		102	80 - 120
Beryllium	1000	1020				ug/L		102	80 - 120
Cadmium	1000	1040				ug/L		104	80 - 120

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 6010C - Metals (ICP) (Continued)**Lab Sample ID: LCS 160-45573/2-A****Matrix: Water****Analysis Batch: 47079****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 45573**

Analyte	Spike		LCS		Unit	D	%Rec	Limits	
	Added	Result	Qualifier						
Calcium	10000	10400			ug/L		104	80 - 120	
Chromium	1000	1060			ug/L		106	80 - 120	
Cobalt	1000	1070			ug/L		107	80 - 120	
Copper	1000	1040			ug/L		104	80 - 120	
Iron	10000	10200			ug/L		102	80 - 120	
Lead	1000	1060			ug/L		106	80 - 120	
Magnesium	10000	10100			ug/L		101	80 - 120	
Manganese	1000	1020			ug/L		102	80 - 120	
Nickel	1000	1070			ug/L		107	80 - 120	
Potassium	10000	9760			ug/L		98	80 - 120	
Selenium	1000	1020			ug/L		102	80 - 120	
Silver	100	94.9			ug/L		95	80 - 120	
Sodium	10000	9770			ug/L		98	80 - 120	
Thallium	200	215			ug/L		108	80 - 120	
Vanadium	1000	996			ug/L		100	80 - 120	
Zinc	1000	1040			ug/L		104	80 - 120	

Lab Sample ID: 160-2044-5 MS**Matrix: Water****Analysis Batch: 46686****Client Sample ID: PZ-204A-SS****Prep Type: Dissolved****Prep Batch: 45573**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Aluminum	ND		10000	10500		ug/L		105	75 - 125
Antimony	ND		500	543		ug/L		109	75 - 125
Arsenic	12	J	1000	1070		ug/L		106	75 - 125
Barium	400		1000	1440		ug/L		104	75 - 125
Beryllium	ND		1000	1040		ug/L		104	75 - 125
Cadmium	ND		1000	1080		ug/L		108	75 - 125
Calcium	220000		10000	239000	4	ug/L		145	75 - 125
Chromium	ND		1000	1080		ug/L		108	75 - 125
Cobalt	ND		1000	1100		ug/L		110	75 - 125
Copper	ND		1000	1080		ug/L		108	75 - 125
Iron	4000		10000	14500		ug/L		105	75 - 125
Lead	ND		1000	1090		ug/L		109	75 - 125
Magnesium	52000		10000	63700	4	ug/L		117	75 - 125
Manganese	2100		1000	3180		ug/L		110	75 - 125
Nickel	ND		1000	1120		ug/L		112	75 - 125
Potassium	15000	J	10000	25400		ug/L		102	75 - 125
Selenium	ND		1000	1050		ug/L		105	75 - 125
Silver	ND		100	100		ug/L		100	75 - 125
Sodium	210000		10000	224000	4	ug/L		167	75 - 125
Thallium	ND		200	219		ug/L		110	75 - 125
Vanadium	ND		1000	1040		ug/L		104	75 - 125
Zinc	33	J	1000	1100		ug/L		106	75 - 125

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 6010C - Metals (ICP) (Continued)**Lab Sample ID: 160-2044-5 MS****Matrix: Water****Analysis Batch: 47079****Client Sample ID: PZ-204A-SS****Prep Type: Dissolved****Prep Batch: 45573**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
Aluminum	ND		10000	10000		ug/L		100	75 - 125	
Antimony	ND		500	518		ug/L		104	75 - 125	
Arsenic	ND		1000	1030		ug/L		103	75 - 125	
Barium	390		1000	1390		ug/L		100	75 - 125	
Beryllium	ND		1000	1000		ug/L		100	75 - 125	
Cadmium	ND		1000	1050		ug/L		105	75 - 125	
Calcium	220000		10000	230000	4	ug/L		96	75 - 125	
Chromium	ND		1000	1040		ug/L		104	75 - 125	
Cobalt	ND		1000	1050		ug/L		105	75 - 125	
Copper	ND		1000	1030		ug/L		103	75 - 125	
Iron	4000		10000	14100		ug/L		102	75 - 125	
Lead	ND		1000	1060		ug/L		106	75 - 125	
Magnesium	51000		10000	61700	4	ug/L		102	75 - 125	
Manganese	2000		1000	3050		ug/L		104	75 - 125	
Nickel	ND		1000	1070		ug/L		107	75 - 125	
Potassium	15000	J	10000	24800	J	ug/L		99	75 - 125	
Selenium	ND		1000	1030		ug/L		103	75 - 125	
Silver	ND		100	94.0		ug/L		94	75 - 125	
Sodium	200000		10000	217000	4	ug/L		152	75 - 125	
Thallium	ND		200	224		ug/L		112	75 - 125	
Vanadium	ND		1000	981		ug/L		98	75 - 125	
Zinc	33	J	1000	1070		ug/L		104	75 - 125	

Lab Sample ID: 160-2044-5 MSD**Matrix: Water****Analysis Batch: 46686****Client Sample ID: PZ-204A-SS****Prep Type: Dissolved****Prep Batch: 45573**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aluminum	ND		10000	10500		ug/L		105	75 - 125	0	20
Antimony	ND		500	551		ug/L		110	75 - 125	1	20
Arsenic	12	J	1000	1080		ug/L		107	75 - 125	1	20
Barium	400		1000	1440		ug/L		104	75 - 125	0	20
Beryllium	ND		1000	1050		ug/L		105	75 - 125	1	20
Cadmium	ND		1000	1110		ug/L		111	75 - 125	2	20
Calcium	220000		10000	238000	4	ug/L		141	75 - 125	0	20
Chromium	ND		1000	1100		ug/L		110	75 - 125	2	20
Cobalt	ND		1000	1120		ug/L		112	75 - 125	2	20
Copper	ND		1000	1100		ug/L		110	75 - 125	2	20
Iron	4000		10000	14600		ug/L		106	75 - 125	1	20
Lead	ND		1000	1110		ug/L		111	75 - 125	1	20
Magnesium	52000		10000	63500	4	ug/L		115	75 - 125	0	20
Manganese	2100		1000	3170		ug/L		109	75 - 125	0	20
Nickel	ND		1000	1140		ug/L		114	75 - 125	2	20
Potassium	15000	J	10000	25700		ug/L		105	75 - 125	1	20
Selenium	ND		1000	1070		ug/L		107	75 - 125	2	20
Silver	ND		100	103		ug/L		103	75 - 125	2	20
Sodium	210000		10000	223000	4	ug/L		151	75 - 125	1	20
Thallium	ND		200	227		ug/L		113	75 - 125	3	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-2044-5 MSD

Matrix: Water

Analysis Batch: 46686

Client Sample ID: PZ-204A-SS

Prep Type: Dissolved

Prep Batch: 45573

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Vanadium	ND		1000	1040		ug/L		104	75 - 125	0	20
Zinc	33	J	1000	1120		ug/L		109	75 - 125	2	20

Lab Sample ID: 160-2044-5 MSD

Matrix: Water

Analysis Batch: 47079

Client Sample ID: PZ-204A-SS

Prep Type: Dissolved

Prep Batch: 45573

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aluminum	ND		10000	10100		ug/L		101	75 - 125	1	20
Antimony	ND		500	537		ug/L		107	75 - 125	4	20
Arsenic	ND		1000	1040		ug/L		104	75 - 125	1	20
Barium	390		1000	1400		ug/L		101	75 - 125	1	20
Beryllium	ND		1000	1020		ug/L		102	75 - 125	1	20
Cadmium	ND		1000	1060		ug/L		106	75 - 125	1	20
Calcium	220000		10000	229000	4	ug/L		84	75 - 125	1	20
Chromium	ND		1000	1050		ug/L		105	75 - 125	1	20
Cobalt	ND		1000	1070		ug/L		107	75 - 125	2	20
Copper	ND		1000	1040		ug/L		104	75 - 125	0	20
Iron	4000		10000	14100		ug/L		101	75 - 125	0	20
Lead	ND		1000	1060		ug/L		106	75 - 125	0	20
Magnesium	51000		10000	61200	4	ug/L		97	75 - 125	1	20
Manganese	2000		1000	3040		ug/L		103	75 - 125	0	20
Nickel	ND		1000	1080		ug/L		108	75 - 125	2	20
Potassium	15000	J	10000	24600	J	ug/L		98	75 - 125	0	20
Selenium	ND		1000	1040		ug/L		104	75 - 125	1	20
Silver	ND		100	95.5		ug/L		96	75 - 125	2	20
Sodium	200000		10000	215000	4	ug/L		138	75 - 125	1	20
Thallium	ND		200	220		ug/L		110	75 - 125	2	20
Vanadium	ND		1000	989		ug/L		99	75 - 125	1	20
Zinc	33	J	1000	1090		ug/L		106	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-46719/1-A

Matrix: Water

Analysis Batch: 46911

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46719

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.20	0.060	ug/L		04/18/13 12:32	04/18/13 16:22	1

Lab Sample ID: LCS 160-46719/2-A

Matrix: Water

Analysis Batch: 46911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46719

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Mercury	1.00	1.05		ug/L		105	80 - 120

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 7470A - Mercury (CVAA) (Continued)**Lab Sample ID: 160-2044-4 MS****Matrix: Water****Analysis Batch: 46911**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Mercury	ND		1.00	0.988		ug/L		99	80 - 120

Client Sample ID: PZ-201A-SS**Prep Type: Total/NA****Prep Batch: 46719****Lab Sample ID: 160-2044-4 MSD****Matrix: Water****Analysis Batch: 46911**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Mercury	ND		1.00	0.908		ug/L		91	80 - 120

Client Sample ID: PZ-201A-SS**Prep Type: Total/NA****Prep Batch: 46719****Lab Sample ID: MB 160-47100/1-A****Matrix: Water****Analysis Batch: 47324**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.20	0.060	ug/L		04/22/13 10:45	04/22/13 14:27	1

Client Sample ID: Method Blank**Prep Type: Total/NA****Prep Batch: 47100****Lab Sample ID: LCS 160-47100/2-A****Matrix: Water****Analysis Batch: 47324**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Mercury	1.00	1.02		ug/L		102	80 - 120

Client Sample ID: Lab Control Sample**Prep Type: Total/NA****Prep Batch: 47100****Lab Sample ID: 160-2044-6 MS****Matrix: Water****Analysis Batch: 47324**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Mercury	0.062	J	1.00	0.950		ug/L		89	80 - 120

Client Sample ID: PZ-205-AS**Prep Type: Dissolved****Prep Batch: 47100****Lab Sample ID: 160-2044-6 MSD****Matrix: Water****Analysis Batch: 47324**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	RPD
	Result	Qualifier	Added	Result	Qualifier				
Mercury	0.062	J	1.00	0.891		ug/L		83	80 - 120

Client Sample ID: PZ-205-AS**Prep Type: Dissolved****Prep Batch: 47100****Method: 300.0 - Anions, Ion Chromatography****Lab Sample ID: MB 160-46720/9****Matrix: Water****Analysis Batch: 46720**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iodide	ND		1.0	0.10	mg/L		04/15/13 18:38		1

Client Sample ID: Method Blank**Prep Type: Total/NA**

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: LCS 160-46720/10****Matrix: Water****Analysis Batch: 46720**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
Iodide	4.00	4.00		mg/L		100	90 - 110

Lab Sample ID: 160-2044-1 MS**Matrix: Water****Analysis Batch: 46720**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Iodide	ND		4.00	3.86		mg/L		97	90 - 110

Lab Sample ID: 160-2044-12 MS**Matrix: Water****Analysis Batch: 46720**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Iodide	ND		4.00	4.07		mg/L		102	90 - 110

Lab Sample ID: 160-2044-1 DU**Matrix: Water****Analysis Batch: 46720**

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				
Iodide	ND			ND		mg/L		NC	20

Lab Sample ID: MB 160-47338/9**Matrix: Water****Analysis Batch: 47338**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	ND		0.020	0.0040	mg/L			04/10/13 17:00	1
Chloride	ND		0.20	0.020	mg/L			04/10/13 17:00	1
Bromide	ND		0.25	0.025	mg/L			04/10/13 17:00	1
Sulfate	ND		0.50	0.050	mg/L			04/10/13 17:00	1

Lab Sample ID: LCS 160-47338/10**Matrix: Water****Analysis Batch: 47338**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Nitrate as N	0.400	0.381		mg/L		95	90 - 110
Chloride	2.00	1.91		mg/L		95	90 - 110
Bromide	2.00	1.95		mg/L		97	90 - 110
Sulfate	8.00	7.65		mg/L		96	90 - 110

Lab Sample ID: 160-2044-1 MS**Matrix: Water****Analysis Batch: 47338**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Nitrate as N	ND	H	0.400	0.361		mg/L	90	90 - 110	

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Client Sample ID: PZ-103-SS
Prep Type: Total/NA

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QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-2044-1 MS

Client Sample ID: PZ-103-SS

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47338

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	5.0		2.00	6.98		mg/L		100	90 - 110		
Bromide	ND		2.00	1.95		mg/L		97	90 - 110		
Sulfate	16		4.00	19.9		mg/L		99	90 - 110		

Lab Sample ID: 160-2044-12 MS

Client Sample ID: PZ-106-SD

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47338

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Nitrate as N	0.0054	J	0.400	0.382		mg/L		94	90 - 110		
Bromide	0.058	J	2.00	2.05		mg/L		100	90 - 110		

Lab Sample ID: 160-2044-1 DU

Client Sample ID: PZ-103-SS

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47338

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				
Nitrate as N	ND	H		ND		mg/L		NC	20
Chloride	5.0			4.95		mg/L		0.7	20
Bromide	ND			ND		mg/L		NC	20
Sulfate	16			15.9		mg/L		0.4	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-2044-12 MS

Client Sample ID: PZ-106-SD

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 47338

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride - DL	12		40.0	49.7		mg/L		93	90 - 110		
Sulfate - DL	69		80.0	146		mg/L		96	90 - 110		

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-45804/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45804

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity	ND		1.3	0.14	mg/L			04/12/13 12:28	1

Lab Sample ID: LCS 160-45804/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 45804

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Alkalinity	400	382		mg/L		96	90 - 110

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 310.1 - Alkalinity (Continued)**Lab Sample ID: LLCS 160-45804/2****Matrix: Water****Analysis Batch: 45804**

Analyte		Spike	LLCS	LLCS	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
Alkalinity		200	189		mg/L		95	90 - 110

Lab Sample ID: 160-2044-5 MS**Matrix: Water****Analysis Batch: 45804**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Alkalinity	370		20.0	381	4	mg/L		80	80 - 120

Lab Sample ID: 160-2044-5 DU**Matrix: Water****Analysis Batch: 45804**

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				
Alkalinity	370			364		mg/L		0.3	20

Lab Sample ID: MB 160-46438/1**Matrix: Water****Analysis Batch: 46438**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity	ND		1.3	0.14	mg/L			04/17/13 13:12	1

Lab Sample ID: LCS 160-46438/3**Matrix: Water****Analysis Batch: 46438**

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Alkalinity	400	382		mg/L		96	90 - 110

Lab Sample ID: LLCS 160-46438/2**Matrix: Water****Analysis Batch: 46438**

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Alkalinity	200	188		mg/L		94	90 - 110

Lab Sample ID: 160-2044-11 MS**Matrix: Water****Analysis Batch: 46438**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Alkalinity	960		20.0	988	4	mg/L		120	80 - 120

Lab Sample ID: 160-2044-11 DU**Matrix: Water****Analysis Batch: 46438**

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				
Alkalinity	960		20.0	980		mg/L		2	20

TestAmerica St. Louis

QC Sample Results

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

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QC Association Summary

Client: Engineering Management Support, Inc.
Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

GC/MS VOA

Analysis Batch: 45595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-20	DUP05	Total/NA	Water	8260C	5
160-2044-20 MS	DUP05	Total/NA	Water	8260C	6
160-2044-20 MSD	DUP05	Total/NA	Water	8260C	7
160-2044-21	TRIP BLANK	Total/NA	Water	8260C	8
LCSD 160-45595/5	Lab Control Sample Dup	Total/NA	Water	8260C	9
MB 160-45595/2	Method Blank	Total/NA	Water	8260C	10

Analysis Batch: 45727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	8260C	11
160-2044-2	PZ-114-AS	Total/NA	Water	8260C	12
160-2044-3	FB@PZ-201A-SS	Total/NA	Water	8260C	13
160-2044-4	PZ-201A-SS	Total/NA	Water	8260C	
160-2044-5	PZ-204A-SS	Total/NA	Water	8260C	
160-2044-5 MS	PZ-204A-SS	Total/NA	Water	8260C	
160-2044-5 MSD	PZ-204A-SS	Total/NA	Water	8260C	
160-2044-6	PZ-205-AS	Total/NA	Water	8260C	
160-2044-8	PZ-206-SS	Total/NA	Water	8260C	
160-2044-9	PZ-204-SS	Total/NA	Water	8260C	
160-2044-11	D-87	Total/NA	Water	8260C	
160-2044-12	PZ-106-SD	Total/NA	Water	8260C	
160-2044-13	S-82	Total/NA	Water	8260C	
160-2044-14	PZ-106-SS	Total/NA	Water	8260C	
160-2044-16	D-93	Total/NA	Water	8260C	
160-2044-17	PZ-111-KS	Total/NA	Water	8260C	
160-2044-18	D-6	Total/NA	Water	8260C	
160-2044-19	D-83	Total/NA	Water	8260C	
LCS 160-45727/4	Lab Control Sample	Total/NA	Water	8260C	
MB 160-45727/2	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 46184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-7	PZ-205-SS	Total/NA	Water	8260C	
160-2044-7 MS	PZ-205-SS	Total/NA	Water	8260C	
160-2044-7 MSD	PZ-205-SS	Total/NA	Water	8260C	
160-2044-10	I-68	Total/NA	Water	8260C	
160-2044-15	I-9	Total/NA	Water	8260C	
LCS 160-46184/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-46184/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-46184/2	Method Blank	Total/NA	Water	8260C	

Metals

Prep Batch: 45572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	3010A	
160-2044-2	PZ-114-AS	Total/NA	Water	3010A	
160-2044-4	PZ-201A-SS	Total/NA	Water	3010A	
160-2044-5	PZ-204A-SS	Total/NA	Water	3010A	
160-2044-5 MS	PZ-204A-SS	Total/NA	Water	3010A	

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Metals (Continued)**Prep Batch: 45572 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-5 MSD	PZ-204A-SS	Total/NA	Water	3010A	5
160-2044-6	PZ-205-AS	Total/NA	Water	3010A	6
160-2044-7	PZ-205-SS	Total/NA	Water	3010A	7
160-2044-8	PZ-206-SS	Total/NA	Water	3010A	8
160-2044-9	PZ-204-SS	Total/NA	Water	3010A	9
160-2044-10	I-68	Total/NA	Water	3010A	10
160-2044-11	D-87	Total/NA	Water	3010A	11
160-2044-12	PZ-106-SD	Total/NA	Water	3010A	12
160-2044-13	S-82	Total/NA	Water	3010A	13
160-2044-14	PZ-106-SS	Total/NA	Water	3010A	
160-2044-15	I-9	Total/NA	Water	3010A	
160-2044-16	D-93	Total/NA	Water	3010A	
160-2044-17	PZ-111-KS	Total/NA	Water	3010A	
160-2044-18	D-6	Total/NA	Water	3010A	
160-2044-19	D-83	Total/NA	Water	3010A	
160-2044-20	DUP05	Total/NA	Water	3010A	
LCS 160-45572/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-45572/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 45573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Dissolved	Water	3010A	
160-2044-2	PZ-114-AS	Dissolved	Water	3010A	
160-2044-4	PZ-201A-SS	Dissolved	Water	3010A	
160-2044-5	PZ-204A-SS	Dissolved	Water	3010A	
160-2044-5 MS	PZ-204A-SS	Dissolved	Water	3010A	
160-2044-5 MSD	PZ-204A-SS	Dissolved	Water	3010A	
160-2044-6	PZ-205-AS	Dissolved	Water	3010A	
160-2044-7	PZ-205-SS	Dissolved	Water	3010A	
160-2044-8	PZ-206-SS	Dissolved	Water	3010A	
160-2044-9	PZ-204-SS	Dissolved	Water	3010A	
160-2044-10	I-68	Dissolved	Water	3010A	
160-2044-11	D-87	Dissolved	Water	3010A	
160-2044-12	PZ-106-SD	Dissolved	Water	3010A	
160-2044-13	S-82	Dissolved	Water	3010A	
160-2044-14	PZ-106-SS	Dissolved	Water	3010A	
160-2044-15	I-9	Dissolved	Water	3010A	
160-2044-16	D-93	Dissolved	Water	3010A	
160-2044-17	PZ-111-KS	Dissolved	Water	3010A	
160-2044-18	D-6	Dissolved	Water	3010A	
160-2044-19	D-83	Dissolved	Water	3010A	
160-2044-20	DUP05	Dissolved	Water	3010A	
LCS 160-45573/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-45573/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 46208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	6010C	45572
160-2044-2	PZ-114-AS	Total/NA	Water	6010C	45572
160-2044-4	PZ-201A-SS	Total/NA	Water	6010C	45572
160-2044-5	PZ-204A-SS	Total/NA	Water	6010C	45572

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Metals (Continued)**Analysis Batch: 46208 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-5 MS	PZ-204A-SS	Total/NA	Water	6010C	45572
160-2044-5 MSD	PZ-204A-SS	Total/NA	Water	6010C	45572
160-2044-6	PZ-205-AS	Total/NA	Water	6010C	45572
160-2044-7	PZ-205-SS	Total/NA	Water	6010C	45572
160-2044-8	PZ-206-SS	Total/NA	Water	6010C	45572
160-2044-9	PZ-204-SS	Total/NA	Water	6010C	45572
160-2044-10	I-68	Total/NA	Water	6010C	45572
160-2044-11	D-87	Total/NA	Water	6010C	45572
160-2044-12	PZ-106-SD	Total/NA	Water	6010C	45572
160-2044-13	S-82	Total/NA	Water	6010C	45572
160-2044-14	PZ-106-SS	Total/NA	Water	6010C	45572
160-2044-15	I-9	Total/NA	Water	6010C	45572
160-2044-16	D-93	Total/NA	Water	6010C	45572
160-2044-17	PZ-111-KS	Total/NA	Water	6010C	45572
160-2044-18	D-6	Total/NA	Water	6010C	45572
160-2044-19	D-83	Total/NA	Water	6010C	45572
160-2044-20	DUP05	Total/NA	Water	6010C	45572
LCS 160-45572/2-A	Lab Control Sample	Total/NA	Water	6010C	45572
MB 160-45572/1-A	Method Blank	Total/NA	Water	6010C	45572

Analysis Batch: 46401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-6	PZ-205-AS	Total/NA	Water	6010C	45572
160-2044-10	I-68	Total/NA	Water	6010C	45572
160-2044-15	I-9	Total/NA	Water	6010C	45572

Analysis Batch: 46686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Dissolved	Water	6010C	45573
160-2044-2	PZ-114-AS	Dissolved	Water	6010C	45573
160-2044-4	PZ-201A-SS	Dissolved	Water	6010C	45573
160-2044-5	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-5 MS	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-5 MSD	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-6	PZ-205-AS	Dissolved	Water	6010C	45573
160-2044-6	PZ-205-AS	Dissolved	Water	6010C	45573
160-2044-7	PZ-205-SS	Dissolved	Water	6010C	45573
160-2044-8	PZ-206-SS	Dissolved	Water	6010C	45573
160-2044-9	PZ-204-SS	Dissolved	Water	6010C	45573
160-2044-10	I-68	Dissolved	Water	6010C	45573
160-2044-10	I-68	Dissolved	Water	6010C	45573
160-2044-11	D-87	Total/NA	Water	6010C	45572
160-2044-11	D-87	Dissolved	Water	6010C	45573
160-2044-11	D-87	Dissolved	Water	6010C	45573
160-2044-12	PZ-106-SD	Dissolved	Water	6010C	45573
160-2044-13	S-82	Dissolved	Water	6010C	45573
160-2044-14	PZ-106-SS	Dissolved	Water	6010C	45573
160-2044-15	I-9	Dissolved	Water	6010C	45573
160-2044-15	I-9	Dissolved	Water	6010C	45573
160-2044-16	D-93	Total/NA	Water	6010C	45572
160-2044-16	D-93	Dissolved	Water	6010C	45573

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Metals (Continued)**Analysis Batch: 46686 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-16	D-93	Dissolved	Water	6010C	45573
160-2044-17	PZ-111-KS	Dissolved	Water	6010C	45573
160-2044-18	D-6	Dissolved	Water	6010C	45573
160-2044-19	D-83	Dissolved	Water	6010C	45573
160-2044-20	DUP05	Total/NA	Water	6010C	45572
160-2044-20	DUP05	Dissolved	Water	6010C	45573
160-2044-20	DUP05	Dissolved	Water	6010C	45573
LCS 160-45573/2-A	Lab Control Sample	Total/NA	Water	6010C	45573
MB 160-45573/1-A	Method Blank	Total/NA	Water	6010C	45573

Prep Batch: 46719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	7470A	10
160-2044-2	PZ-114-AS	Total/NA	Water	7470A	11
160-2044-4	PZ-201A-SS	Total/NA	Water	7470A	12
160-2044-4 MS	PZ-201A-SS	Total/NA	Water	7470A	13
160-2044-4 MSD	PZ-201A-SS	Total/NA	Water	7470A	
160-2044-5	PZ-204A-SS	Total/NA	Water	7470A	
160-2044-6	PZ-205-AS	Total/NA	Water	7470A	
160-2044-7	PZ-205-SS	Total/NA	Water	7470A	
160-2044-8	PZ-206-SS	Total/NA	Water	7470A	
160-2044-9	PZ-204-SS	Total/NA	Water	7470A	
160-2044-10	I-68	Total/NA	Water	7470A	
160-2044-11	D-87	Total/NA	Water	7470A	
160-2044-12	PZ-106-SD	Total/NA	Water	7470A	
160-2044-13	S-82	Total/NA	Water	7470A	
160-2044-14	PZ-106-SS	Total/NA	Water	7470A	
160-2044-15	I-9	Total/NA	Water	7470A	
160-2044-16	D-93	Total/NA	Water	7470A	
160-2044-17	PZ-111-KS	Total/NA	Water	7470A	
160-2044-18	D-6	Total/NA	Water	7470A	
160-2044-19	D-83	Total/NA	Water	7470A	
160-2044-20	DUP05	Total/NA	Water	7470A	
LCS 160-46719/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-46719/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 46901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Dissolved	Water	6010C	45573
160-2044-2	PZ-114-AS	Dissolved	Water	6010C	45573
160-2044-4	PZ-201A-SS	Dissolved	Water	6010C	45573
160-2044-5	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-6	PZ-205-AS	Dissolved	Water	6010C	45573
160-2044-6	PZ-205-AS	Dissolved	Water	6010C	45573
160-2044-7	PZ-205-SS	Dissolved	Water	6010C	45573
160-2044-8	PZ-206-SS	Dissolved	Water	6010C	45573
160-2044-9	PZ-204-SS	Dissolved	Water	6010C	45573
160-2044-10	I-68	Dissolved	Water	6010C	45573
160-2044-10	I-68	Dissolved	Water	6010C	45573
160-2044-11	D-87	Dissolved	Water	6010C	45573
160-2044-11	D-87	Dissolved	Water	6010C	45573

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Metals (Continued)**Analysis Batch: 46901 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-12	PZ-106-SD	Dissolved	Water	6010C	45573
160-2044-13	S-82	Dissolved	Water	6010C	45573
160-2044-14	PZ-106-SS	Dissolved	Water	6010C	45573
160-2044-15	I-9	Dissolved	Water	6010C	45573
160-2044-15	I-9	Dissolved	Water	6010C	45573
160-2044-16	D-93	Dissolved	Water	6010C	45573
160-2044-16	D-93	Dissolved	Water	6010C	45573
160-2044-17	PZ-111-KS	Dissolved	Water	6010C	45573
160-2044-18	D-6	Dissolved	Water	6010C	45573
160-2044-19	D-83	Dissolved	Water	6010C	45573
160-2044-20	DUP05	Dissolved	Water	6010C	45573
160-2044-20	DUP05	Dissolved	Water	6010C	45573

Analysis Batch: 46911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	7470A	46719
160-2044-2	PZ-114-AS	Total/NA	Water	7470A	46719
160-2044-4	PZ-201A-SS	Total/NA	Water	7470A	46719
160-2044-4 MS	PZ-201A-SS	Total/NA	Water	7470A	46719
160-2044-4 MSD	PZ-201A-SS	Total/NA	Water	7470A	46719
160-2044-5	PZ-204A-SS	Total/NA	Water	7470A	46719
160-2044-6	PZ-205-AS	Total/NA	Water	7470A	46719
160-2044-7	PZ-205-SS	Total/NA	Water	7470A	46719
160-2044-8	PZ-206-SS	Total/NA	Water	7470A	46719
160-2044-9	PZ-204-SS	Total/NA	Water	7470A	46719
160-2044-10	I-68	Total/NA	Water	7470A	46719
160-2044-11	D-87	Total/NA	Water	7470A	46719
160-2044-12	PZ-106-SD	Total/NA	Water	7470A	46719
160-2044-13	S-82	Total/NA	Water	7470A	46719
160-2044-14	PZ-106-SS	Total/NA	Water	7470A	46719
160-2044-15	I-9	Total/NA	Water	7470A	46719
160-2044-16	D-93	Total/NA	Water	7470A	46719
160-2044-17	PZ-111-KS	Total/NA	Water	7470A	46719
160-2044-18	D-6	Total/NA	Water	7470A	46719
160-2044-19	D-83	Total/NA	Water	7470A	46719
160-2044-20	DUP05	Total/NA	Water	7470A	46719
LCS 160-46719/2-A	Lab Control Sample	Total/NA	Water	7470A	46719
MB 160-46719/1-A	Method Blank	Total/NA	Water	7470A	46719

Analysis Batch: 47079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Dissolved	Water	6010C	45573
160-2044-2	PZ-114-AS	Dissolved	Water	6010C	45573
160-2044-4	PZ-201A-SS	Dissolved	Water	6010C	45573
160-2044-5	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-5 MS	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-5 MSD	PZ-204A-SS	Dissolved	Water	6010C	45573
160-2044-6	PZ-205-AS	Dissolved	Water	6010C	45573
160-2044-6	PZ-205-AS	Dissolved	Water	6010C	45573
160-2044-7	PZ-205-SS	Dissolved	Water	6010C	45573
160-2044-8	PZ-206-SS	Dissolved	Water	6010C	45573

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Metals (Continued)**Analysis Batch: 47079 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-9	PZ-204-SS	Dissolved	Water	6010C	45573
160-2044-10	I-68	Dissolved	Water	6010C	45573
160-2044-11	D-87	Dissolved	Water	6010C	45573
160-2044-11	D-87	Dissolved	Water	6010C	45573
160-2044-12	PZ-106-SD	Dissolved	Water	6010C	45573
160-2044-13	S-82	Dissolved	Water	6010C	45573
160-2044-14	PZ-106-SS	Dissolved	Water	6010C	45573
160-2044-15	I-9	Dissolved	Water	6010C	45573
160-2044-15	I-9	Dissolved	Water	6010C	45573
160-2044-16	D-93	Dissolved	Water	6010C	45573
160-2044-16	D-93	Dissolved	Water	6010C	45573
160-2044-17	PZ-111-KS	Dissolved	Water	6010C	45573
160-2044-18	D-6	Dissolved	Water	6010C	45573
160-2044-19	D-83	Dissolved	Water	6010C	45573
160-2044-20	DUP05	Dissolved	Water	6010C	45573
160-2044-20	DUP05	Dissolved	Water	6010C	45573
LCS 160-45573/2-A	Lab Control Sample	Total/NA	Water	6010C	45573
MB 160-45573/1-A	Method Blank	Total/NA	Water	6010C	45573

Prep Batch: 47100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Dissolved	Water	7470A	
160-2044-2	PZ-114-AS	Dissolved	Water	7470A	
160-2044-4	PZ-201A-SS	Dissolved	Water	7470A	
160-2044-5	PZ-204A-SS	Dissolved	Water	7470A	
160-2044-6	PZ-205-AS	Dissolved	Water	7470A	
160-2044-6 MS	PZ-205-AS	Dissolved	Water	7470A	
160-2044-6 MSD	PZ-205-AS	Dissolved	Water	7470A	
160-2044-7	PZ-205-SS	Dissolved	Water	7470A	
160-2044-8	PZ-206-SS	Dissolved	Water	7470A	
160-2044-9	PZ-204-SS	Dissolved	Water	7470A	
160-2044-10	I-68	Dissolved	Water	7470A	
160-2044-11	D-87	Dissolved	Water	7470A	
160-2044-12	PZ-106-SD	Dissolved	Water	7470A	
160-2044-13	S-82	Dissolved	Water	7470A	
160-2044-14	PZ-106-SS	Dissolved	Water	7470A	
160-2044-15	I-9	Dissolved	Water	7470A	
160-2044-16	D-93	Dissolved	Water	7470A	
160-2044-17	PZ-111-KS	Dissolved	Water	7470A	
160-2044-18	D-6	Dissolved	Water	7470A	
160-2044-19	D-83	Dissolved	Water	7470A	
160-2044-20	DUP05	Dissolved	Water	7470A	
LCS 160-47100/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-47100/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 47324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Dissolved	Water	7470A	47100
160-2044-2	PZ-114-AS	Dissolved	Water	7470A	47100
160-2044-4	PZ-201A-SS	Dissolved	Water	7470A	47100
160-2044-5	PZ-204A-SS	Dissolved	Water	7470A	47100

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Metals (Continued)**Analysis Batch: 47324 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-6	PZ-205-AS	Dissolved	Water	7470A	47100
160-2044-6 MS	PZ-205-AS	Dissolved	Water	7470A	47100
160-2044-6 MSD	PZ-205-AS	Dissolved	Water	7470A	47100
160-2044-7	PZ-205-SS	Dissolved	Water	7470A	47100
160-2044-8	PZ-206-SS	Dissolved	Water	7470A	47100
160-2044-9	PZ-204-SS	Dissolved	Water	7470A	47100
160-2044-10	I-68	Dissolved	Water	7470A	47100
160-2044-11	D-87	Dissolved	Water	7470A	47100
160-2044-12	PZ-106-SD	Dissolved	Water	7470A	47100
160-2044-13	S-82	Dissolved	Water	7470A	47100
160-2044-14	PZ-106-SS	Dissolved	Water	7470A	47100
160-2044-15	I-9	Dissolved	Water	7470A	47100
160-2044-16	D-93	Dissolved	Water	7470A	47100
160-2044-17	PZ-111-KS	Dissolved	Water	7470A	47100
160-2044-18	D-6	Dissolved	Water	7470A	47100
160-2044-19	D-83	Dissolved	Water	7470A	47100
160-2044-20	DUP05	Dissolved	Water	7470A	47100
LCS 160-47100/2-A	Lab Control Sample	Total/NA	Water	7470A	47100
MB 160-47100/1-A	Method Blank	Total/NA	Water	7470A	47100

General Chemistry**Analysis Batch: 45804**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1 - DL	PZ-103-SS	Total/NA	Water	310.1	
160-2044-2	PZ-114-AS	Total/NA	Water	310.1	
160-2044-4	PZ-201A-SS	Total/NA	Water	310.1	
160-2044-5	PZ-204A-SS	Total/NA	Water	310.1	
160-2044-5 DU	PZ-204A-SS	Total/NA	Water	310.1	
160-2044-5 MS	PZ-204A-SS	Total/NA	Water	310.1	
160-2044-6	PZ-205-AS	Total/NA	Water	310.1	
160-2044-7	PZ-205-SS	Total/NA	Water	310.1	
160-2044-8	PZ-206-SS	Total/NA	Water	310.1	
160-2044-9	PZ-204-SS	Total/NA	Water	310.1	
160-2044-10	I-68	Total/NA	Water	310.1	
160-2044-16	D-93	Total/NA	Water	310.1	
LCS 160-45804/3	Lab Control Sample	Total/NA	Water	310.1	
LLCS 160-45804/2	Lab Control Sample	Total/NA	Water	310.1	
MB 160-45804/1	Method Blank	Total/NA	Water	310.1	

Analysis Batch: 46438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-11	D-87	Total/NA	Water	310.1	
160-2044-11 DU	D-87	Total/NA	Water	310.1	
160-2044-11 MS	D-87	Total/NA	Water	310.1	
160-2044-12	PZ-106-SD	Total/NA	Water	310.1	
160-2044-13 - DL	S-82	Total/NA	Water	310.1	
160-2044-14	PZ-106-SS	Total/NA	Water	310.1	
160-2044-15 - DL	I-9	Total/NA	Water	310.1	
160-2044-17	PZ-111-KS	Total/NA	Water	310.1	

TestAmerica St. Louis

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

General Chemistry (Continued)**Analysis Batch: 46438 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-18	D-6	Total/NA	Water	310.1	5
160-2044-19	D-83	Total/NA	Water	310.1	6
160-2044-20 - DL	DUP05	Total/NA	Water	310.1	7
LCS 160-46438/3	Lab Control Sample	Total/NA	Water	310.1	8
LLCS 160-46438/2	Lab Control Sample	Total/NA	Water	310.1	9
MB 160-46438/1	Method Blank	Total/NA	Water	310.1	10

Analysis Batch: 46720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	300.0	9
160-2044-1 DU	PZ-103-SS	Total/NA	Water	300.0	10
160-2044-1 MS	PZ-103-SS	Total/NA	Water	300.0	11
160-2044-2	PZ-114-AS	Total/NA	Water	300.0	12
160-2044-4	PZ-201A-SS	Total/NA	Water	300.0	13
160-2044-5	PZ-204A-SS	Total/NA	Water	300.0	
160-2044-6	PZ-205-AS	Total/NA	Water	300.0	
160-2044-7	PZ-205-SS	Total/NA	Water	300.0	
160-2044-8	PZ-206-SS	Total/NA	Water	300.0	
160-2044-9	PZ-204-SS	Total/NA	Water	300.0	
160-2044-10	I-68	Total/NA	Water	300.0	
160-2044-11	D-87	Total/NA	Water	300.0	
160-2044-12	PZ-106-SD	Total/NA	Water	300.0	
160-2044-12 MS	PZ-106-SD	Total/NA	Water	300.0	
160-2044-13	S-82	Total/NA	Water	300.0	
160-2044-14	PZ-106-SS	Total/NA	Water	300.0	
160-2044-15	I-9	Total/NA	Water	300.0	
160-2044-16	D-93	Total/NA	Water	300.0	
160-2044-17	PZ-111-KS	Total/NA	Water	300.0	
160-2044-18	D-6	Total/NA	Water	300.0	
160-2044-19	D-83	Total/NA	Water	300.0	
160-2044-20	DUP05	Total/NA	Water	300.0	
LCS 160-46720/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-46720/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 47338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-1	PZ-103-SS	Total/NA	Water	300.0	
160-2044-1 DU	PZ-103-SS	Total/NA	Water	300.0	
160-2044-1 MS	PZ-103-SS	Total/NA	Water	300.0	
160-2044-2	PZ-114-AS	Total/NA	Water	300.0	
160-2044-2 - DL2	PZ-114-AS	Total/NA	Water	300.0	
160-2044-4	PZ-201A-SS	Total/NA	Water	300.0	
160-2044-4 - DL	PZ-201A-SS	Total/NA	Water	300.0	
160-2044-5	PZ-204A-SS	Total/NA	Water	300.0	
160-2044-5 - DL	PZ-204A-SS	Total/NA	Water	300.0	
160-2044-5 - DL2	PZ-204A-SS	Total/NA	Water	300.0	
160-2044-6	PZ-205-AS	Total/NA	Water	300.0	
160-2044-6 - DL2	PZ-205-AS	Total/NA	Water	300.0	
160-2044-7	PZ-205-SS	Total/NA	Water	300.0	
160-2044-7 - DL	PZ-205-SS	Total/NA	Water	300.0	
160-2044-8	PZ-206-SS	Total/NA	Water	300.0	

QC Association Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

General Chemistry (Continued)**Analysis Batch: 47338 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-2044-8 - DL	PZ-206-SS	Total/NA	Water	300.0	1
160-2044-9	PZ-204-SS	Total/NA	Water	300.0	2
160-2044-9 - DL	PZ-204-SS	Total/NA	Water	300.0	3
160-2044-10	I-68	Total/NA	Water	300.0	4
160-2044-10 - DL	I-68	Total/NA	Water	300.0	5
160-2044-10 - DL2	I-68	Total/NA	Water	300.0	6
160-2044-11	D-87	Total/NA	Water	300.0	7
160-2044-11 - DL2	D-87	Total/NA	Water	300.0	8
160-2044-12	PZ-106-SD	Total/NA	Water	300.0	9
160-2044-12 - DL	PZ-106-SD	Total/NA	Water	300.0	10
160-2044-12 MS - DL	PZ-106-SD	Total/NA	Water	300.0	11
160-2044-12 MS	PZ-106-SD	Total/NA	Water	300.0	12
160-2044-13	S-82	Total/NA	Water	300.0	13
160-2044-13 - DL2	S-82	Total/NA	Water	300.0	1
160-2044-14	PZ-106-SS	Total/NA	Water	300.0	2
160-2044-14 - DL	PZ-106-SS	Total/NA	Water	300.0	3
160-2044-15	I-9	Total/NA	Water	300.0	4
160-2044-15 - DL2	I-9	Total/NA	Water	300.0	5
160-2044-16	D-93	Total/NA	Water	300.0	6
160-2044-16 - DL2	D-93	Total/NA	Water	300.0	7
160-2044-17	PZ-111-KS	Total/NA	Water	300.0	8
160-2044-17 - DL	PZ-111-KS	Total/NA	Water	300.0	9
160-2044-17 - DL2	PZ-111-KS	Total/NA	Water	300.0	10
160-2044-18	D-6	Total/NA	Water	300.0	11
160-2044-18 - DL2	D-6	Total/NA	Water	300.0	12
160-2044-19	D-83	Total/NA	Water	300.0	13
160-2044-19 - DL	D-83	Total/NA	Water	300.0	1
160-2044-20	DUP05	Total/NA	Water	300.0	2
160-2044-20 - DL	DUP05	Total/NA	Water	300.0	3
160-2044-20 - DL2	DUP05	Total/NA	Water	300.0	4
LCS 160-47338/10	Lab Control Sample	Total/NA	Water	300.0	5
MB 160-47338/9	Method Blank	Total/NA	Water	300.0	6

Surrogate Summary

Client: Engineering Management Support, Inc.
 Project/Site: West Lake Landfill

TestAmerica Job ID: 160-2044-1

Method: 8260C - Volatile Organic Compounds by GC/MS**Matrix: Water****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (82-132)	BFB (82-121)	DBFM (85-119)	TOL (85-115)
160-2044-1	PZ-103-SS	100	85	102	91
160-2044-2	PZ-114-AS	97	85	100	89
160-2044-3	FB@PZ-201A-SS	100	84	103	91
160-2044-4	PZ-201A-SS	94	83	99	88
160-2044-5	PZ-204A-SS	100	85	101	91
160-2044-5 MS	PZ-204A-SS	98	88	99	94
160-2044-5 MSD	PZ-204A-SS	103	90	100	94
160-2044-6	PZ-205-AS	95	83	99	93
160-2044-7	PZ-205-SS	103	99	106	101
160-2044-7 MS	PZ-205-SS	98	96	100	104
160-2044-7 MSD	PZ-205-SS	98	97	99	102
160-2044-8	PZ-206-SS	96	84	99	88
160-2044-9	PZ-204-SS	97	85	101	89
160-2044-10	I-68	110	101	109	102
160-2044-11	D-87	97	84	99	88
160-2044-12	PZ-106-SD	95	84	99	88
160-2044-13	S-82	95	84	100	90
160-2044-14	PZ-106-SS	93	82	97	85
160-2044-15	I-9	106	97	102	95
160-2044-16	D-93	97	85	101	87
160-2044-17	PZ-111-KS	93	82	95	88
160-2044-18	D-6	93	82	97	87
160-2044-19	D-83	95	84	98	91
160-2044-20	DUP05	104	96	102	95
160-2044-20 MS	DUP05	97	95	100	101
160-2044-20 MSD	DUP05	99	91	101	103
160-2044-21	TRIP BLANK	104	95	104	97
LCS 160-45727/4	Lab Control Sample	98	87	100	94
LCS 160-46184/4	Lab Control Sample	98	95	96	102
LCSD 160-45595/5	Lab Control Sample Dup	101	95	102	105
LCSD 160-46184/5	Lab Control Sample Dup	101	94	103	105
MB 160-45595/2	Method Blank	101	100	95	99
MB 160-45727/2	Method Blank	96	84	101	89
MB 160-46184/2	Method Blank	110	103	104	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)